



AD-A279 397



COMPREHENSIVE MONITORING PROGRAM

Contract Number DAAA15-87-0095

AIR QUALITY DATA ASSESSMENT REPORT FOR 1989

FINAL REPORT

JUNE 1990

Version 2.1

Volume V

Prepared by:

**R. L. STOLLAR & ASSOCIATES INC.
HARDING LAWSON ASSOCIATES
EBASCO SERVICES INC.
DATACHEM, INC.
MIDWEST RESEARCH INSTITUTE**

Prepared for:

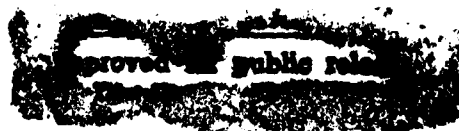
**U. S. ARMY PROGRAM MANAGER FOR
ROCKY MOUNTAIN ARSENAL**

**Rocky Mountain Arsenal
Information Center
Commerce City, Colorado**

**DTIC
ELECTE
MAY 19 1994
S G D**

THE VIEWS, OPINIONS, AND/OR FINDINGS CONTAINED IN THIS REPORT ARE THOSE OF THE AUTHOR(S) AND SHOULD NOT BE CONSTRUED AS AN OFFICIAL DEPARTMENT OF THE ARMY POSITION, POLICY, OR DECISION, UNLESS SO DESIGNATED BY OTHER DOCUMENTATION.

THE USE OF TRADE NAMES IN THIS REPORT DOES NOT CONSTITUTE AN OFFICIAL ENDORSEMENT OR APPROVAL OF THE USE OF SUCH COMMERCIAL PRODUCTS. THE REPORT MAY NOT BE CITED FOR PURPOSES OF ADVERTISEMENT.



REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE 06/00/90		3. REPORT TYPE AND DATES COVERED	
4. TITLE AND SUBTITLE COMPREHENSIVE MONITORING PROGRAM, FINAL AIR QUALITY DATA ASSESSMENT REPORT FOR 1989, VERSION 2.1				5. FUNDING NUMBERS DAAA15 87 C 0095	
6. AUTHOR(S)				8. PERFORMING ORGANIZATION REPORT NUMBER 90230R01	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) ROBERT L. STOLLAR AND ASSOCIATES DENVER, CO				10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) ROCKY MOUNTAIN ARSENAL (CO.). PMRMA COMMERCE CITY, CO				11. SUPPLEMENTARY NOTES	
12a. DISTRIBUTION/AVAILABILITY STATEMENT APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED				12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) <p>THE PURPOSE OF THE AIR ELEMENT OF THE COMPREHENSIVE MONITORING PROGRAM IS TO ESTABLISH AN ON-GOING BASELINE TO 1) VERIFY AMBIENT AIR QUALITY AND 2) EVALUATE PROGRESS MADE IN REMEDIAL ACTIONS. THE PROGRAM CONSISTS OF THREE MODES OF OPERATION:</p> <ol style="list-style-type: none"> 1. YEAR-ROUND AND ROUTINE SEASONAL BASELINE MONITORING OF PM-10, VOC, SVOC, TSP, OTSP, ASBEST, AND METALS 2. "HIGH EVENT" MONITORING DURING SPECIFIED METEOROLOGICAL CONDITIONS 3. SUPPLEMENTAL MONITORING FOR REMEDIAL AND CONSTRUCTION ACTIVITIES. <p>THIS REPORT IS DIVIDED INTO THE FOLLOWING SECTIONS:</p> <ol style="list-style-type: none"> 1. INTRODUCTION - BACKGROUND, POTENTIAL SOURCES 2. LOCAL AIR QUALITY AND METEOROLOGICAL CHARACTERISTICS 3. PROGRAM METHODOLOGY - SITING CRITERIA, MONITORING LOCATIONS 4. RESULTS OF THE FY89 PROGRAM 5. CONTINUOUS AIR MONITORING PROGRAM 					
14. SUBJECT TERMS CONTAMINANT SOURCES, HEALTH AND SAFETY, METEOROLOGY				PAGES	
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED				16. PRICE CODE	
18. SECURITY CLASSIFICATION OF THIS PAGE		19. SECURITY CLASSIFICATION OF ABSTRACT		20. LIMITATION OF ABSTRACT	

94 5 18 116

94-15018



APPENDIX O
IRA-F Total Suspended Particulates (TSP) Data

Accession For	
NTIS CRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP	NET
				CONC UG/M3	WEIGHT MG
05/10/89	FC1	18361	1633	42.23	68.95
05/22/89	FC1	18371	1627	47.01	76.5
08/14/89	FC1	18434	1638	43.07	70.55
08/26/89	FC1	22706	1641	47.94	78.7
09/07/89	FC1	22717	1074	104.8	112.5
09/19/89	FC1	22724	1603	33.72	54.05

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP CONC UG/M3	NET WEIGHT MG
05/10/89	FC2	18362	1628	37.21	60.6
05/22/89	FC2	18372	1632	49.58	80.9
06/03/89	FC2	18381	1639	11.63	19.05
06/15/89	FC2	18391	1641	37.85	62.1
06/27/89	FC2	18401	1647	34.91	57.5
07/09/89	FC2	18411	1621	32.59	52.85
07/21/89	FC2	18421	1623	89.01	144.5
08/14/89	FC2	18435	1622	40.1	65.05
08/26/89	FC2	22707	1636	43.82	71.7
09/07/89	FC2	22718	1633	66.67	108.85
09/19/89	FC2	22725	1633	30.31	49.5

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP	NET
				CONC UG/M3	WEIGHT MG
05/10/89	FC20	18363	1647	37.99	62.55
05/22/89	FC20	18373	1635	49.97	81.7
06/03/89	FC20	18389	1637	12.89	21.1
06/15/89	FC20	18392	1634	39.31	64.25
06/27/89	FC20	18402	1653	37.3	61.65
07/09/89	FC20	18412	1663	36.71	61.05
07/21/89	FC20	18422	1665	96.35	160.45
08/14/89	FC20	18436	1660	39.68	65.85
08/26/89	FC20	22708	1609	45.45	73.1
09/07/89	FC20	22719	1617	69.72	112.7
09/19/89	FC20	22726	1611	29.87	48.1

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP	NET
				CONC UG/M3	WEIGHT MG
05/10/89	BF3	18365	1605	36.72	58.95
05/22/89	BF3	18375	1601	48.06	76.95
06/03/89	BF3	18383	1627	21.48	34.95
06/15/89	BF3	18393	1348	49.56	66.8
06/27/89	FC3	18403	1665	37.51	62.45
07/09/89	FC3	18413	1658	37.06	61.45
07/21/89	FC3	18423	1659	93.71	155.45
08/14/89	FC3	18437	1403	51.35	72.05
08/26/89	FC3	22709	1618	44.05	71.25
09/07/89	FC3	22720	1616	68.68	111
09/19/89	FC3	22727	1694	28.42	48.15

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP	NET
				CONC UG/M3	WEIGHT MG
05/10/89	BF4	18366	1456	41.54	60.5
05/22/89	BF4	18376	1451	51.15	74.25
06/03/89	BF4	18384	1455	13.23	19.25
06/15/89	FC4	18394	1674	40.34	67.55
06/27/89	FC4	18404	1686	38.71	65.25
07/09/89	FC4	18414	1682	37.48	63.05
07/21/89	FC4	18424	1684	103.39	174.15
08/02/89	FC4	18431	1171	39.52	46.3
08/14/89	FC4	18438	1683	40.88	68.8
08/26/89	FC4	22710	1667	47.16	78.6
09/07/89	FC4	22721	1662	70.23	116.75
09/19/89	FC4	22728	1646	30.66	50.45

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP	NET
				CONC UG/M3	WEIGHT MG
06/15/89	FC5	18395	1681	46.3	77.85
06/27/89	FC5	18405	1683	45.91	77.25
07/09/89	FC5	18415	1681	47.61	80.05
07/21/89	FC5	18425	1669	87.08	145.3
08/14/89	FC5	18439	1683	51.41	86.5
08/26/89	FC5	22711	1639	68.34	112
09/07/89	FC5	22722	1638	76.18	124.8
09/19/89	FC5	22729	1637	31.21	51.1

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP	NET
				CONC UG/M3	WEIGHT MG
05/10/89	BF5	18367	1617	36.24	58.6
05/22/89	BF5	18377	1617	45.58	73.7
06/03/89	BF5	18385	1618	10.85	17.55
06/15/89	BF5	18396	1672	36.58	61.15
06/27/89	BF5	18406	1674	43.55	72.9

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP	NET
				CONC UG/M3	WEIGHT MG
05/10/89	BF7	18368	1676	36.54	61.25
05/22/89	BF7	18378	1671	44.53	74.4
06/03/89	BF7	18386	1680	12.59	21.15
06/15/89	BF7	18397	1676	39.35	65.95
06/27/89	BF7	18407	1674	38.88	65.1

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP	MET
				CONC UG/M3	WEIGHT MG
05/10/89	RIFS1	18369	1612	50.23	80.95
05/22/89	RIFS1	18379	1588	51.81	82.3
06/03/89	RIFS1	18387	1622	12.11	19.65
06/15/89	RIFS1	18398	1602	40.69	65.2
06/27/89	RIFS1	18408	1587	42.05	66.75

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	TSP CONC UG/M3	NET WEIGHT MG
06/03/89	FC2F	18388			0.2
06/15/89	FC2F	18399			0.15
06/27/89	FC2F	18409			0
07/09/89	FC2F	18416			-0.45
07/21/89	FC2F	18426			0
08/02/89	FC2F	18433			
08/14/89	FC2F	18440			0.35
08/26/89	FC2F	22712			-0.5
09/07/89	FC2F	22723			0.75
09/19/89	FC2F	22730			0.1

APPENDIX P

IRA-F Respirable Particulates of Less Than 10 Microns (PM-10) Data

RESPIRABLE PARTICULATES OF LESS THAN 10 MICRONS (PM-10) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	CONC UG/M3	NET
					WEIGHT MG
06/27/89	FC1	21901	1583	17.53	27.75
07/21/89	FC1	21905	1586	34.8	55.2
08/14/89	FC1				
08/26/89	FC1	21915	1369	18.45	25.25
09/07/89	FC1	21917	1898	26.53	50.35
09/19/89	FC1	21919	1369	16.43	22.5

RESPIRABLE PARTICULATES OF LESS THAN 10 MICRONS (PM-10) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	CONC UG/M3	NET WEIGHT MG
06/27/89	FC3	21902	1366	16.26	22.2
07/09/89	FC3	21904	1360	17.13	23.3
07/21/89	FC3	21906	1360	35.65	48.5
08/14/89	FC3	21909	1369	17.79	24.35
08/26/89	FC3	21916	1412	18.49	26.1
09/07/89	FC3	21918	1408	30.64	43.15
09/19/89	FC3	21920	1406	15.29	21.5

APPENDIX Q
IRA-F Arsenic, Metals, and Mercury Data

SUMMARY OF ARSENIC AND METALS

IRAF

ALL UNITS ARE IN UG/M3

FIELD SAMPLE DATE	SITE NUMBER ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
05/10/89	18361 FC1	0.0006	0.0004	LT 0.0051	0.0772	0.0489	0.0213
05/10/89	18362 FC2	0.0005	LT 0.0004	LT 0.0051	0.0269	0.0493	0.0183
05/10/89	18363 FC2D	0.0005	0.0004	LT 0.0051	0.1180	0.0502	0.0210
05/10/89	18365 BF3	0.0006	LT 0.0004	LT 0.0051	0.1200	0.0475	0.0216
05/10/89	18366 BF4	0.0005	LT 0.0004	LT 0.0051	0.1230	0.0482	0.0218
05/10/89	18367 BF5	0.0005	LT 0.0004	LT 0.0051	0.0736	0.0471	0.0218
05/10/89	18368 BF7	0.0006	0.0006	LT 0.0051	0.1530	0.0411	0.0216
05/10/89	18369 RIFS1	0.0005	0.0005	LT 0.0051	0.2360	0.0401	0.0319
05/22/89	18371 FC1	0.0006	0.0033	LT 0.0051	0.1910	0.0197	0.0272
05/22/89	18372 FC2	0.0006	0.0043	LT 0.0051	0.1610	0.0268	0.0268
05/22/89	18373 FC2D	0.0004	0.0029	LT 0.0051	0.2290	0.0176	0.0280
05/22/89	18375 BF3	0.0005	0.0033	LT 0.0051	0.1370	0.0179	0.0275
05/22/89	18376 BF4	0.0005	0.0040	LT 0.0051	0.1330	0.0208	0.0296
05/22/89	18377 BF5	0.0005	0.0021	LT 0.0051	0.1180	0.0173	0.0233
05/22/89	18378 BF7	0.0006	0.0013	LT 0.0051	0.1940	0.0136	0.0285
05/22/89	18379 RIFS1	0.0006	0.0021	LT 0.0051	0.1030	0.0219	0.0409
06/13/89	18381 FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0659	LT 0.0050	0.0094
06/13/89	18383 BF3	LT 0.0004	LT 0.0004	LT 0.0051	0.0922	LT 0.0050	0.0076
06/13/89	18384 BF4	LT 0.0004	LT 0.0004	LT 0.0051	0.0838	LT 0.0050	0.0069
06/13/89	18385 BF5	LT 0.0004	LT 0.0004	LT 0.0051	0.0643	LT 0.0050	0.0393
06/13/89	18386 BF7	LT 0.0004	LT 0.0004	LT 0.0051	0.1150	LT 0.0050	0.0062
06/13/89	18387 RIFS1	LT 0.0004	LT 0.0004	LT 0.0051	0.0611	LT 0.0050	0.0105
06/13/89	18389 FC2D	LT 0.0004	LT 0.0004	LT 0.0051	0.0770	LT 0.0050	0.0095
06/15/89	18391 FC2	LT 0.0004	0.0011	LT 0.0051	0.1220	0.0110	0.0134
06/15/89	18392 FC2D	LT 0.0004	0.0010	LT 0.0051	0.1920	0.0091	0.0186
06/15/89	18393 BF3	LT 0.0004	0.0009	LT 0.0051	0.1420	0.0153	0.0280
06/15/89	18394 FC4	LT 0.0004	0.0007	LT 0.0051	0.1310	0.0109	0.0308
06/15/89	18395 FC5	LT 0.0004	0.0007	LT 0.0051	0.1640	0.0095	0.0196
06/15/89	18396 BF5	LT 0.0004	0.0004	LT 0.0051	0.1750	0.0082	0.0178
06/15/89	18397 BF7	LT 0.0004	0.0006	LT 0.0051	0.1770	0.0113	0.0216
06/15/89	18398 RIFS1	LT 0.0004	0.0004	LT 0.0051	0.1640	0.0115	0.0218
06/27/89	18401 FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0953	0.0119	0.0185
06/27/89	18402 FC2D	LT 0.0004	LT 0.0004	LT 0.0051	0.1690	0.0140	0.0185
06/27/89	18403 FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.0323	0.0126	0.0234
06/27/89	18404 FC4	0.0004	LT 0.0004	LT 0.0051	0.1080	0.0142	0.0255
06/27/89	18405 FC5	0.0004	LT 0.0004	LT 0.0051	0.2160	0.0141	0.0292
06/27/89	18406 BF5	LT 0.0004	LT 0.0004	LT 0.0051	0.1430	0.0130	0.0228
06/27/89	18407 BF7	LT 0.0004	LT 0.0004	LT 0.0051	0.0938	0.0137	0.0205
06/27/89	18408 RIFS1	LT 0.0004	LT 0.0004	LT 0.0051	0.1170	0.0156	0.0465
07/9/89	18411 FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.1520	0.0067	0.0200
07/9/89	18412 FC2D	LT 0.0004	LT 0.0004	LT 0.0051	GT 0.3070	LT 0.0050	0.0232
07/9/89	18413 FC3	0.0004	LT 0.0004	LT 0.0051	0.1210	0.0053	0.0127
07/9/89	18414 FC4	0.0004	LT 0.0004	LT 0.0051	0.1490	0.0071	0.0178
07/9/89	18415 FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.2090	0.0064	0.0350
07/21/89	18421 FC2	0.0005	LT 0.0004	LT 0.0051	0.0746	0.0050	0.0140
07/21/89	18422 FC2D	0.0004	LT 0.0004	LT 0.0051	0.1150	0.0089	0.0178
07/21/89	18423 FC3	0.0004	LT 0.0004	LT 0.0051	0.0675	0.0069	0.0204
07/21/89	18424 FC4	0.0005	LT 0.0004	LT 0.0051	0.0588	0.0085	0.0179
07/21/89	18425 FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.0983	0.0091	0.0272
08/14/89	18434 FC1	LT 0.0004	LT 0.0004	LT 0.0051	0.1620	0.0090	0.0165
08/14/89	18435 FC2	LT 0.0004	LT 0.0004	LT 0.0051	0.0709	0.0083	0.0213

SUMMARY OF ARSENIC AND METALS

IRAF

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
08/14/89	18436	FC2D	LT 0.0004	LT 0.0004	LT 0.0051	0.0563	0.0068	0.0196
08/14/89	18437	FC3	LT 0.0004	LT 0.0004	LT 0.0051	0.1030	0.0095	0.0217
08/14/89	18438	FC4	LT 0.0004	LT 0.0004	LT 0.0051	0.0796	0.0063	0.0168
08/14/89	18439	FC5	LT 0.0004	LT 0.0004	LT 0.0051	0.0707	0.0071	0.0176

SUMMARY OF MERCURY FOR IRAP

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	MERCURY RESULTS
05/10/89	20157	FC1	LT 0.6180
05/10/89	20160	FC2	LT 0.6180
05/10/89	20163	FC20	LT 0.6180
05/10/89	20169	BF3	LT 0.6180
05/10/89	20172	BF4	LT 0.6180
05/10/89	20175	BF5	LT 0.6180
05/10/89	20178	BF7	LT 0.6180
05/10/89	20181	RIFS1	LT 0.6180
05/16/89	23001	FC1	LT 0.6180
05/16/89	23004	FC2	LT 0.6180
05/16/89	23007	BF3	LT 0.6180
05/16/89	23010	BF4	LT 0.6180
05/16/89	23013	BF5	LT 0.6180
05/16/89	23016	BF7	LT 0.6180
05/16/89	23019	RIFS1	LT 0.6180
05/22/89	23025	FC1	LT 0.6180
05/22/89	23028	FC2	LT 0.6180
05/22/89	23031	FC20	LT 0.6180
05/22/89	23037	BF3	LT 0.6180
05/22/89	23040	BF4	LT 0.6180
05/22/89	23043	BF5	LT 0.6180
05/22/89	23046	BF7	LT 0.6180
05/22/89	23049	RIFS1	LT 0.6180
05/28/89	23052	FC1	LT 0.6180
05/28/89	23055	FC2	LT 0.6180
05/28/89	23058	BF3	LT 0.6180
05/28/89	23061	BF4	LT 0.6180
05/28/89	23064	BF5	LT 0.6180
05/28/89	23067	BF7	LT 0.6180
05/28/89	23070	RIFS1	LT 0.6180
06/3/89	23079	FC2	LT 0.6180
06/3/89	23082	FC20	LT 0.6180
06/3/89	23085	BF3	LT 0.6180
06/3/89	23088	BF4	LT 0.6180
06/3/89	23091	BF5	LT 0.6180
06/3/89	23094	BF7	LT 0.6180
06/3/89	23097	RIFS1	LT 0.6180
06/9/89	23103	FC1	LT 0.6180
06/9/89	23106	FC2	LT 0.6180
06/9/89	23109	BF3	LT 0.6180
06/9/89	23112	BF4	LT 0.6180
06/9/89	23115	BF5	LT 0.6180
06/9/89	23118	BF7	LT 0.6180
06/9/89	23121	RIFS1	LT 0.6180
06/15/89	23127	FC2	LT 0.6180
06/15/89	23130	FC20	LT 0.6180
06/15/89	23133	BF3	LT 0.6180
06/15/89	23136	BF4	LT 0.6180
06/15/89	23139	FC5	LT 0.6180
06/15/89	23142	BF5	LT 0.6180
06/15/89	23145	BF7	LT 0.6180

SUMMARY OF MERCURY FOR IRAF

ALL UNITS ARE IN UG/M3

AMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	MERCURY RESULTS
06/15/89	23148	RIFS1	LT 0.6180
06/21/89	23154	FC1	LT 0.6180
06/21/89	23157	FC2	LT 0.6180
06/21/89	23160	BF3	LT 0.6180
06/21/89	23163	FC4	LT 0.6180
06/21/89	23166	FC5	LT 0.6180
06/21/89	23169	BF5	LT 0.6180
06/21/89	23172	BF7	LT 0.6180
06/21/89	23175	RIFS1	LT 0.6180
06/27/89	23131	FC1	LT 0.6180
06/27/89	23134	FC2	LT 0.6180
06/27/89	23137	FC2D	LT 0.6180
06/27/89	23140	FC3	LT 0.6180
06/27/89	23143	FC4	LT 0.6180
06/27/89	23146	FC5	LT 0.6180
06/27/89	23149	BF5	LT 0.6180
06/27/89	23202	BF7	LT 0.6180
06/27/89	23205	RIFS1	LT 0.6180
07/09/89	23223	FC2	LT 0.6180
07/09/89	23226	FC2D	LT 0.6180
07/09/89	23229	FC3	LT 0.6180
07/09/89	23232	FC4	LT 0.6180
07/09/89	23235	FC5	LT 0.6180
07/21/89	23253	FC1	LT 0.6200
07/21/89	23256	FC2	LT 0.6200
07/21/89	23259	FC2D	LT 0.6200
07/21/89	23262	FC3	LT 0.6200
07/21/89	23265	FC4	LT 0.6200
07/21/89	23268	FC5	LT 0.6200
08/14/89	23301	FC1	LT 0.6180
08/14/89	23304	FC2	LT 0.6180
08/14/89	23307	FC2D	LT 0.6180
08/14/89	23310	FC3	LT 0.6180
08/14/89	23313	FC4	LT 0.6180
08/14/89	23316	FC5	LT 0.6180
08/26/89	23330	FC1	LT 0.6180
08/26/89	23331	FC2	LT 0.6180
08/26/89	23332	FC2D	LT 0.6180
08/26/89	23333	FC3	LT 0.6180
08/26/89	23334	FC4	LT 0.6180
08/26/89	23335	FC5	LT 0.6180
09/07/89	23363	FC1	LT 0.6180
09/07/89	23366	FC2	LT 0.6180
09/07/89	23369	FC2D	LT 0.6180
09/07/89	23372	FC3	LT 0.6180
09/07/89	23375	FC4	LT 0.6180
09/07/89	23378	FC5	LT 0.6180
09/19/89	23396	FC1	LT 0.6180
09/19/89	23399	FC2	LT 0.6180
09/19/89	23402	FC2D	LT 0.6180
09/19/89	23405	FC3	LT 0.6180

SUMMARY OF MERCURY FOR IRAF

ALL UNITS ARE IN UG/MS

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	MERCURY RESULTS
09/19/89	23408	FC4	LT 0.6180
09/19/89	23411	FC5	LT 0.6180

APPENDIX R
IRA-F Volatile Organic Compounds (VOC) Data

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE REL

Page: 1

Sample	Field Sample	Site id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichlorobenzene	Bicyclohexadiene	Benzene	Tetrachloride	Chloride	Chloroform	Chlorobenzene
Date	Number												
05/10/89	20170	20171 BF3	1.1400 a	LT 0.0295	LT 0.0243	0.0320 b	0.2420	LT 0.0417	1.4500	0.4200 a	0.3120 b	0.2080 a	0.0425
05/10/89	20173	20174 BF4	1.5200 a	LT 0.0295	LT 0.0243	0.0613 b	LT 0.0278	LT 0.0417	1.9400 a	0.5080 a	0.4640 b	0.3280 a	LT 0.0350
05/10/89	20176	20177 BF5	0.9860 a	LT 0.0295	LT 0.0243	0.0242 b	0.7750	LT 0.0417	1.6000	0.3400 a	0.3180 b	0.1700 a	0.0517
05/10/89	20179	20180 BF7	2.0000 a	LT 0.0295	LT 0.0243	LT 0.0208	0.6670	LT 0.0417	2.1000 a	0.4950 a	0.7420 a	0.1620 a	0.0675
05/10/89	20188	20189 FC1	1.0800 a	LT 0.0295	LT 0.0243	LT 0.0208	0.4890	LT 0.0417	1.5300 a	0.3060 a	0.4230 b	0.2500 a	0.0722
05/10/89	20161	20162 FC2	1.4500 a	LT 0.0295	LT 0.0243	0.0426 b	0.7090	LT 0.0417	1.9000 a	0.4840 a	0.6230 b	0.5290 a	0.0694
05/10/89	20169	20165 FC20	1.7700 a	LT 0.0295	LT 0.0243	0.1030	1.0700	LT 0.0417	2.5500	0.6500	0.5290 a	0.6390 a	0.1670
05/10/89	20182	20183 RIFS1	2.1400 a	LT 0.0295	LT 0.0243	LT 0.0208	1.1200	LT 0.0417	2.5700 a	0.5490 a	0.9210 a	0.1980 a	0.0841
05/16/89	23008	23009 BF3	1.7300 a	LT 0.0295	LT 0.0243	LT 0.0208	1.1300	LT 0.0417	1.1800	0.4270 a	1.6600 a	0.0802 a	LT 0.0350
05/16/89	23011	23012 BF4	2.1400 a	LT 0.0295	LT 0.0243	LT 0.0208	1.3000	LT 0.0417	1.4900	0.6520 a	2.6100	0.1050 a	LT 0.0350
05/16/89	23017	23018 BF7	1.3500 a	LT 0.0295	LT 0.0243	LT 0.0208	0.7330	LT 0.0417	0.3690	0.4210 a	0.6990 a	0.0759 a	LT 0.0350
05/16/89	23002	23003 FC1	1.7900 a	LT 0.0295	LT 0.0243	0.0255 b	0.5570	LT 0.0417	1.2200	0.4710 a	1.1700 a	0.0918 a	LT 0.0350
05/16/89	23020	23021 RIFS1	1.5700 a	LT 0.0295	LT 0.0243	0.0235 b	1.0900	LT 0.0417	0.9940	0.4290 a	0.7970 a	0.0809 a	LT 0.0350
05/22/89	23038	23039 BF3	0.8640 a	LT 0.0295	LT 0.0243	LT 0.0208	0.7910	LT 0.0417	1.4000 a	0.2410 a	0.5050 b	LT 0.0350	LT 0.0350
05/22/89	23047	23048 BF7	1.0600 a	LT 0.0295	LT 0.0243	LT 0.0208	0.6230	LT 0.0417	1.2300 a	0.2990 a	0.4370 b	0.0329 b	LT 0.0350
05/22/89	23026	23027 FC1	0.9730 a	LT 0.0295	LT 0.0243	LT 0.0208	0.7720	LT 0.0417	1.1200 a	0.2450 a	0.2150 b	0.0517 b	LT 0.0350
05/22/89	23032	23033 FC20	1.2400 a	LT 0.0295	LT 0.0243	LT 0.0208	0.7720	LT 0.0417	1.1600 a	0.3410 a	0.1910 b	0.0449 b	LT 0.0350

a - t/c weight 1.251 weight

b - Detected on t/c only

BT - Value Is Above CBL; No Estimate Available

a - t/c weight 1.251 weight

b - Detected on t/c only

GT - Value Is Above REL; No Estimate Available

ALL UNITS ARE IN MG/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE REL

Page 2

Sample Date Field Sample Site to Dibromochloropropane Dicyclopentadiene Diethylidithiide Ethylbenzene Toluene Methylisobutyl M-Nitroso- Trans-1,2-Dichloroethene Tetrachloroethene Trichloroethene Para-xylene

05/10/89	20170	20171	BF3	LT 0.0382	LT 0.0451	LT 0.0469	0.1940	GT 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.7790	0.0819	0.0210
05/10/89	20173	20174	BF4	LT 0.0382	LT 0.0451	LT 0.0469	LT 0.0295	3.6400	LT 0.0174	LT 0.1020	LT 0.0399	0.5630	0.1140	LT 0.1410
05/10/89	20176	20177	BF5	0.0891	LT 0.0451	LT 0.0469	0.5630	2.7400	LT 0.0174	LT 0.1020	LT 0.0399	1.1600	0.0448	0.0200
05/10/89	20179	20180	BF7	LT 0.0382	LT 0.0451	LT 0.0469	0.5000	2.9300	LT 0.0174	LT 0.1020	LT 0.0399	1.0300	0.0610	1.0200
05/10/89	20158	20159	FC1	0.2810	LT 0.0451	LT 0.0469	0.4560	GT 0.3470	0.0465	LT 0.1020	LT 0.0399	1.0400	1.5200	1.5300
05/10/89	20161	20162	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.5510	GT 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.3650	0.1020	1.0100
05/10/89	20164	20165	FC20	LT 0.0382	LT 0.0451	LT 0.0469	0.8000	4.4000	LT 0.0174	LT 0.1020	LT 0.0399	1.1100	0.1450	1.2000
05/10/89	20182	20183	RFPS1	LT 0.0382	LT 0.0451	LT 0.0469	0.2700	3.4100	LT 0.0174	LT 0.1020	LT 0.0399	1.2700	0.1240	1.1000
05/16/89	23008	23009	BF3	LT 0.0382	LT 0.0451	LT 0.0469	0.3490	GT 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	1.6300	0.0600	0.2600
05/16/89	23011	23012	BF4	LT 0.0382	LT 0.0451	LT 0.0469	1.0100	GT 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	1.8600	0.1040	1.1000
05/16/89	23017	23018	BF7	LT 0.0382	LT 0.0451	LT 0.0469	0.6050	GT 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	1.6000	0.0651	1.0200
05/16/89	23003	23003	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.4930	GT 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	1.4900	0.1140	1.2600
05/16/89	23020	23021	RFPS1	LT 0.0382	LT 0.0451	LT 0.0469	0.7850	GT 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	1.2000	0.0740	0.2500
05/22/89	23038	23039	BF3	LT 0.0382	LT 0.0451	LT 0.0469	0.5760	2.0500	LT 0.0174	LT 0.1020	LT 0.0399	0.5040	0.1020	1.0400
05/22/89	23047	23048	BF7	LT 0.0382	LT 0.0451	LT 0.0469	0.4070	2.4500	0.0341	LT 0.1020	LT 0.0399	0.2560	0.1020	1.2600
05/22/89	23026	23027	FC1	LT 0.0382	LT 0.0451	LT 0.0469	3.5910	2.0400	LT 0.0174	LT 0.1020	LT 0.0399	0.1270	0.0600	0.2500
05/22/89	23032	23033	FC20	LT 0.0382	LT 0.0451	LT 0.0469	0.1240	2.0700	LT 0.0174	LT 0.1020	LT 0.0399	0.4000	0.1020	0.2500

a - tie weight 1.29t weight
b - Detected on tie only
GT - Value Is Above REL; No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Sample Field Sample Site Id 1.1.1- Trichloroethane 1.1.2- Dichloroethane 1.2- Benzene 1.2- Carbon Tetrachloride Chloroform Chlorobenzene
Date Number

05/22/89	23050	23051	RIF51	0.4970	LT 0.0295	LT 0.0243	LT 0.0209	0.6670	LT 0.0417	1.3900	0.2220	0.4380	0.5030	LT 0.0130
				a						a		a		
05/28/89	23059	23060	BF3	0.5130	LT 0.0295	LT 0.0243	LT 0.0209	0.3300	LT 0.0417	0.9110	0.2310	0.4340	LT 0.0208	LT 0.0330
				a						a		a		
05/28/89	23062	23063	BF4	0.6680	LT 0.0295	LT 0.0243	LT 0.0209	1.0700	LT 0.0417	1.0700	0.2900	0.4720	0.0264	LT 0.0330
				a						a		a	b	
05/28/89	23065	23066	BF5	0.6060	LT 0.0295	LT 0.0243	LT 0.0208	1.1900	LT 0.0417	0.8740	0.2100	0.4000	LT 0.0208	LT 0.0330
				a						a		a		
05/28/89	23063	23064	FC1	0.7290	LT 0.0295	LT 0.0243	LT 0.0208	0.9410	LT 0.0417	1.2700	0.2590	0.7670	0.0467	LT 0.0330
				a						a		b	b	
05/28/89	23066	23067	FC2	0.5660	LT 0.0295	LT 0.0243	LT 0.0209	0.6990	LT 0.0417	0.3530	0.2450	0.1520	LT 0.0208	LT 0.0130
				a						a		a		
05/28/89	23071	23072	RIF51	0.7230	LT 0.0295	LT 0.0243	LT 0.0209	1.2200	LT 0.0417	1.3100	0.2480	0.6840	0.0388	LT 0.0330
				a						a		a	b	
06/3/89	23086	23087	BF3	0.7850	LT 0.0295	LT 0.0243	0.0719	0.1350	LT 0.0417	0.5200	0.6390	0.2280	0.1260	LT 0.0130
				a			a			a		a	a	
06/3/89	23092	23093	BF5	0.4420	LT 0.0295	LT 0.0243	0.0913	0.0861	LT 0.0417	0.5140	0.6070	0.1970	0.1590	LT 0.0330
				a			a			a		b	b	
06/3/89	23095	23096	BF7	0.8350	LT 0.0295	LT 0.0243	0.0439	0.1330	LT 0.0417	0.5940	0.4520	0.2310	0.1180	LT 0.0330
				a			b			a		a	a	
06/3/89	23090	23081	FC2	0.7310	LT 0.0295	LT 0.0243	0.0404	0.1030	LT 0.0417	0.5550	0.5020	0.2520	0.1160	LT 0.0330
				a			b			a		a	a	
06/3/89	23083	23084	FC20	0.9790	LT 0.0295	LT 0.0243	0.0576	0.1210	LT 0.0417	1.0600	0.6910	0.3440	0.1890	LT 0.0330
				a						a		a	a	
06/3/89	23098	23099	RIF51	1.0000	LT 0.0295	LT 0.0243	0.0993	0.1510	LT 0.0417	0.6520	0.5290	0.1690	0.1430	LT 0.0330
				a			a			a		b	a	
06/9/89	23110	23111	BF3	0.8180	LT 0.0295	LT 0.0243	0.0412	0.4010	LT 0.0417	0.8440	0.6960	0.1550	0.1290	LT 0.0330
				a			b			a		a	a	
06/9/89	23113	23114	BF4	0.8750	LT 0.0295	LT 0.0243	LT 0.0209	0.3540	LT 0.0417	1.0400	0.6930	0.1530	0.1190	LT 0.0330
				a						a		b	a	
06/9/89	23116	23117	BF5	0.8510	LT 0.0295	LT 0.0243	LT 0.0209	0.3440	LT 0.0417	0.9230	0.7710	0.1670	0.1190	LT 0.0330
				a						a		b	a	
06/9/89	23119	23120	BF7	1.0300	LT 0.0295	LT 0.0243	LT 0.0209	0.3340	LT 0.0417	1.0700	0.7300	0.1670	0.1190	LT 0.0330
				a						a		a	a	

a - t/c weight 1.25t weight
b - Detected on t/c only
GT - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE REL

Page 2

Sample Date	Field Sample Number	Site id	Dibromochloropropane	Dichlorodisulfide	Ethylbenzene	Toluene	Methylisobutyl ketone	diethylamine	2-chloroethene	Trans-1,2-trichloroethene	Trichloroethene	Para-xylene		
05/22/89	23050	23051	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.5190	2.3700	LT 0.0174	LT 0.1020	LT 0.0399	0.7040	LT 0.0330	1.9600
05/28/89	23059	23060	BF3	LT 0.0382	LT 0.0451	LT 0.0469	0.5380	2.7500	LT 0.0174	LT 0.1020	LT 0.0399	0.4500	LT 0.0330	2.0100
05/28/89	23062	23063	BF4	LT 0.0382	LT 0.0451	LT 0.0469	0.7120	3.3100	LT 0.0174	LT 0.1020	LT 0.0399	0.5540	LT 0.0330	2.5200
05/28/89	23065	23066	BF5	LT 0.0382	LT 0.0451	LT 0.0469	0.7460	3.2500	LT 0.0174	LT 0.1020	LT 0.0399	0.5220	LT 0.0330	2.5100
05/28/89	23053	23054	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.6620	3.2400	LT 0.0174	LT 0.1020	LT 0.0399	0.5230	LT 0.0330	2.2600
05/28/89	23056	23057	FC2	LT 0.0382	LT 0.0451	LT 0.0469	3.9900	2.5200	LT 0.0174	LT 0.1020	LT 0.0399	0.4200	LT 0.0330	1.8500
05/28/89	23071	23072	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.7980	3.5400	LT 0.0174	LT 0.1020	LT 0.0399	0.6440	LT 0.0330	2.0600
06/3/89	23086	23087	BF3	LT 0.0382	LT 0.0451	LT 0.0469	0.1030	0.7980	LT 0.0174	LT 0.1020	LT 0.0399	0.2390	LT 0.0330	0.3150
06/3/89	23092	23093	BF5	LT 0.0382	LT 0.0451	LT 0.0469	0.0634	0.4400	LT 0.0174	LT 0.1020	LT 0.0399	0.1720	LT 0.0330	0.1750
06/3/89	23095	23096	BF7	LT 0.0382	LT 0.0451	LT 0.0469	0.0961	0.8210	LT 0.0174	LT 0.1020	LT 0.0399	0.1480	LT 0.0330	0.3050
06/3/89	23080	23081	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.0739	0.6430	LT 0.0174	LT 0.1020	LT 0.0399	0.1720	LT 0.0330	0.2360
06/3/89	23083	23084	FC20	LT 0.0382	LT 0.0451	LT 0.0469	0.0662	0.7130	LT 0.0174	LT 0.1020	LT 0.0399	0.1620	LT 0.0330	0.1450
06/3/89	23098	23099	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.1150	0.8960	LT 0.0174	LT 0.1020	LT 0.0399	0.1910	LT 0.0330	0.2960
06/9/89	23110	23111	BF3	LT 0.0382	LT 0.0451	LT 0.0469	0.2910	1.4200	LT 0.0174	LT 0.1020	LT 0.0399	0.3320	LT 0.0330	1.0600
06/9/89	23113	23114	BF4	LT 0.0382	LT 0.0451	LT 0.0469	0.3000	1.4300	LT 0.0174	LT 0.1020	LT 0.0399	0.3360	LT 0.0330	1.1100
06/9/89	23116	23117	BF5	LT 0.0382	LT 0.0451	LT 0.0469	0.2530	1.3300	LT 0.0174	LT 0.1020	LT 0.0399	0.3000	LT 0.0330	0.9450
06/9/89	23119	23120	BF7	LT 0.0382	LT 0.0451	LT 0.0469	0.2600	1.5700	0.0382	LT 0.1020	LT 0.0399	0.3500	LT 0.0330	0.9750

d - t/c weight 0.25t weight

p - Detected on t/c only

GT - Value is Above REL; No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CPL

Page: 5

Sample Date	Field Sample Number	Site id	1,1,1- Trichloroethane	1,1,2- Trichloroethane	1,2- Dichloroethane	1,2- Benzene	Carbon Tetrachloride	Methylene Chloride	Chloroform					
06/9/89	23107	23106	FC2	0.7500	LT 0.0295	LT 0.0243	LT 0.0205	0.3660	LT 0.0417	0.8910	0.5940	0.1210	0.1380	LT 0.0330
06/9/89	23122	23123	RIFS1	0.7500	LT 0.0295	LT 0.0243	LT 0.0205	0.5090	LT 0.0417	1.0200	0.4610	0.1850	0.1240	LT 0.0330
06/15/89	23134	23135	BF3	1.0700	LT 0.0295	LT 0.0243	0.0445	0.5020	LT 0.0417	0.9390	0.4150	0.4220	0.0793	0.0505
06/15/89	23137	23138	BF4	0.9620	LT 0.0295	LT 0.0243	0.0423	0.4810	LT 0.0417	0.9620	0.3810	0.3730	0.0873	0.0455
06/15/89	23143	23144	BF5	0.8830	LT 0.0295	LT 0.0243	0.0416	0.4400	LT 0.0417	0.7980	0.4030	0.3000	0.0414	0.0510
06/15/89	23146	23147	BF7	1.0600	LT 0.0295	LT 0.0243	LT 0.0205	0.6110	LT 0.0417	0.9320	0.3110	0.3410	0.0662	0.0650
06/15/89	23122 / 23129	FC2	0.9680	LT 0.0295	LT 0.0243	0.0441	0.5020	LT 0.0417	0.9810	0.3910	0.3910	0.3340	0.0901	0.0505
06/15/89	23131	23132	FC20	1.5300	LT 0.0295	LT 0.0243	LT 0.0205	0.3240	LT 0.0417	1.6900	0.6640	0.6480	0.2680	LT 0.0330
06/15/89	23140	23141	FC5	1.0800	LT 0.0295	LT 0.0243	0.0427	0.4510	LT 0.0417	0.9910	0.4200	0.3720	0.1530	0.0455
06/15/89	23149	23150	RIFS1	1.1500	LT 0.0295	LT 0.0243	0.0493	0.4810	LT 0.0417	0.9560	0.3950	0.4130	0.1150	0.0374
06/21/89	23161	23162	BF3	1.0200	LT 0.0295	LT 0.0243	0.0457	0.1050	LT 0.0417	0.6080	0.3910	0.2100	0.1570	LT 0.0330
06/21/89	23170	23171	BF5	1.0300	LT 0.0295	LT 0.0243	0.0470	0.0565	LT 0.0417	0.5750	0.3760	0.3550	0.1380	LT 0.0330
06/21/89	23155	23156	FC1	0.5940	LT 0.0295	LT 0.0243	0.0368	0.4690	LT 0.0417	0.5970	0.3460	0.2040	0.1160	LT 0.0330
06/21/89	23158	23159	FC2	0.9510	LT 0.0295	LT 0.0243	0.0586	0.1300	LT 0.0417	0.6950	0.4080	0.3870	0.2450	LT 0.0330
06/21/89	23164	23165	FC4	0.8260	LT 0.0295	LT 0.0243	0.0621	0.4550	LT 0.0417	0.6560	0.4250	0.3520	0.1100	LT 0.0330
06/21/89	23167	23168	FC5	1.0700	LT 0.0295	LT 0.0243	0.0362	0.1150	LT 0.0417	0.7220	0.4260	0.2330	0.1030	LT 0.0330
06/21/89	23176	23177	RIFS1	0.9250	LT 0.0295	LT 0.0243	0.0621	0.3380	LT 0.0417	0.7920	0.3920	0.1940	0.0900	LT 0.0330

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above CPL; No Estimate Available

ALL UNITS ARE IN US/RS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CPL

Sample Field Number Date Site id DIBROMOCHLOROPROANE DICYCLOPENTADIENE DIETHYLDISULFIDE ETHYLBENZENE TOLUENE P-xylene m-xylene o-xylene trans-1,2-dichloroethene cis-1,2-dichloroethene tetrachloroethene tri-chloroethene

06/9/89	23107	23108	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.2730	1.3700	LT 0.0174	LT 0.1020	LT 0.0399	0.3400	LT 0.0330	0.9400
06/9/89	23122	23123	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.3500	1.6400	LT 0.0174	LT 0.1020	LT 0.0399	0.3670	LT 0.0330	1.1800
06/15/89	23134	23135	BF3	LT 0.0382	LT 0.0451	LT 0.0469	0.4350	1.5400	LT 0.0174	LT 0.1020	LT 0.0399	0.4720	LT 0.0330	1.2400
06/15/89	23137	23138	BF4	LT 0.0382	LT 0.0451	LT 0.0469	0.4120	6T 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.4050	LT 0.0330	1.2000
06/15/89	23143	23144	BF5	LT 0.0382	LT 0.0451	LT 0.0469	0.3450	1.5000	LT 0.0174	LT 0.1020	LT 0.0399	0.4250	LT 0.0330	1.1400
06/15/89	23146	23147	BF7	0.0476	LT 0.0451	LT 0.0469	0.4820	6T 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.4180	LT 0.0330	1.4500
06/15/89	23129	23129	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.3940	1.5400	LT 0.0174	LT 0.1020	LT 0.0399	0.4870	LT 0.0330	1.1500
06/15/89	23131	23132	FC20	LT 0.0382	LT 0.0451	LT 0.0469	0.3260	2.4000	LT 0.0174	LT 0.1020	LT 0.0399	0.4260	LT 0.0330	1.0600
06/15/89	23140	23141	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.3820	1.4900	LT 0.0174	LT 0.1020	LT 0.0399	0.4170	0.4500	1.1300
06/15/89	23149	23150	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.3560	1.5600	LT 0.0174	LT 0.1020	LT 0.0399	0.3740	LT 0.0330	1.1900
06/21/89	23161	23162	BF3	LT 0.0382	LT 0.0451	LT 0.0469	0.0751	0.5580	LT 0.0174	LT 0.1020	LT 0.0399	0.2640	LT 0.0330	0.1800
06/21/89	23170	23171	BF5	LT 0.0382	LT 0.0451	LT 0.0469	0.0442	0.4260	LT 0.0174	LT 0.1020	LT 0.0399	0.1960	LT 0.0330	0.1300
06/21/89	23155	23156	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.3050	1.6500	LT 0.0174	LT 0.1020	LT 0.0399	0.3970	0.1640	1.2300
06/21/89	23158	23159	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.0925	1.0600	LT 0.0174	LT 0.1020	LT 0.0399	0.1550	LT 0.0330	0.1210
06/21/89	23164	23165	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.3160	1.3300	LT 0.0174	LT 0.1020	LT 0.0399	0.4340	LT 0.0330	1.1100
06/21/89	23167	23168	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.0947	0.6510	LT 0.0174	LT 0.1020	LT 0.0399	0.2410	0.1400	0.1200
06/21/89	23176	23177	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.1399	1.2500	LT 0.0174	LT 0.1020	LT 0.0399	0.2000	0.1400	0.1200

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above CPL; No Estimate Available

ALL UNITS ARE IN UG/IN³

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 7

Sample Date	Field Sample Number	Site id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Trichloroethane	Carbon Tetrachloride	Methylene Chloride	Chloroform	Chlorobenzene			
06/27/89	23200	23201	8F5	1.2900	LT 0.0295	LT 0.0243	LT 0.0208	0.8030	LT 0.0417	0.0400	0.4010	0.4420	0.0787	LT 0.0330
				a						a	a	b	b	
06/27/89	23203	23204	8F7	0.9450	LT 0.0295	LT 0.0243	LT 0.0508	0.2710	LT 0.0417	1.2700	0.2330	0.4330	LT 0.0208	LT 0.0330
				a						a	a	b		
06/27/89	23182	23183	FC1	0.9290	LT 0.0295	LT 0.0243	LT 0.0208	0.4850	LT 0.0417	1.3400	0.2330	0.0578	0.0653	LT 0.0330
				a						a	a	b	b	
06/27/89	23185	23186	FC2	0.9020	LT 0.0295	LT 0.0243	0.0425	0.6390	LT 0.0417	0.9600	0.2260	0.3400	0.0970	LT 0.0330
				a			b			a	a	b	b	
06/27/89	23188	23189	FC2D	1.6400	LT 0.0295	LT 0.0243	LT 0.0208	0.7550	LT 0.0417	1.5100	0.5000	LT 0.0278	0.0942	LT 0.0330
				a						a	a		b	
06/27/89	23191	23192	FC3	1.0300	LT 0.0295	LT 0.0243	LT 0.0208	0.6360	LT 0.0417	1.0300	0.2390	0.4560	0.0262	LT 0.0330
				a						a	a	b	b	
06/27/89	23194	23195	FC4	0.9210	LT 0.0295	LT 0.0243	0.0401	0.7090	LT 0.0417	1.0000	0.2130	0.4610	0.0241	LT 0.0330
				a			b			a	a	b	b	
06/27/89	23197	23198	FC5	0.3920	LT 0.0295	LT 0.0243	LT 0.0208	0.7270	LT 0.0417	0.3520	0.2090	0.4470	0.0636	LT 0.0330
				a						a	a	b	b	
06/27/89	23206	23207	PIFS1	1.0600	LT 0.0295	LT 0.0243	LT 0.0208	0.4940	LT 0.0417	1.9000	0.2600	0.5360	0.0325	LT 0.0330
				a						a	a	b	b	
07/13/89	23213	23214	FC2	1.0700	LT 0.0295	LT 0.0243	LT 0.0208	0.5900	LT 0.0417	1.2900	0.4460	0.8230	0.1600	LT 0.0330
				a						a	a	a	b	
07/13/89	23217	23218	FC4	0.5250	LT 0.0295	LT 0.0243	LT 0.0208	0.4760	LT 0.0417	0.5620	0.1440	0.5940	0.0604	LT 0.0330
				a						a	a	a	b	
07/13/89	23219	23220	FC5	0.5630	LT 0.0295	LT 0.0243	LT 0.0208	0.5650	LT 0.0417	0.5000	0.1770	0.5990	0.1310	LT 0.0330
				a						a	a	a	b	
07/13/89	23224	23225	FC2	0.3930	LT 0.0295	LT 0.0243	0.0302	0.4200	LT 0.0417	0.4530	0.1370	0.4260	0.4870	LT 0.0330
				a			b			a	a	a	b	
07/13/89	23227	23228	FC2D	0.3940	LT 0.0295	LT 0.0243	LT 0.0208	0.3550	LT 0.0417	0.3830	0.0917	0.3580	0.7560	LT 0.0330
				a						b	b	b	b	
07/13/89	23230	23231	FC3	0.4190	LT 0.0295	LT 0.0243	LT 0.0208	0.5200	LT 0.0417	0.3860	0.1490	0.3730	0.0944	LT 0.0330
				a						a	a	a	b	
07/13/89	23233	23234	FC4	0.4140	LT 0.0295	LT 0.0243	0.0231	0.4290	LT 0.0417	0.3120	0.1490	0.3820	0.0824	LT 0.0330
				a			b			a	a	b	b	
07/13/89	23236	23237	FC5	0.4030	LT 0.0295	LT 0.0243	LT 0.0208	0.3960	LT 0.0417	0.4570	0.1450	0.3660	0.1460	LT 0.0330
				a						a	a	a	b	

a - t/c weight 1.23t weight

b - Detected on t/c only

GT - Value Is Above CRL; No Estimate Available

Date	Sample	Field Sample	Site Id	Dibromochloropropane	Dicyclopentadiene	Diethylidithiophene	Ketone	Methylisobutyl M-nitroso-	diethylamine	Trans-1,2-dichloroethene	Tetrachloroethene	Trichloroethylene	Para-xylene
06/27/89	23200	23201	BF5	LT 0.0382	LT 0.0451	LT 0.0469	0.5220	1.9700	LT 0.0174	LT 0.1020	LT 0.0399	1.1200	0.1840
06/27/89	23203	23204	BF7	LT 0.0382	LT 0.0451	LT 0.0469	0.1890	2.1100	LT 0.0174	LT 0.1020	LT 0.0399	0.6910	0.4510
06/27/89	23182	23183	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.3300	1.7900	LT 0.0174	LT 0.1020	LT 0.0399	1.1900	0.5340
06/27/89	23185	23186	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.4140	1.8000	LT 0.0174	LT 0.1020	LT 0.0399	1.3500	0.1210
06/27/89	23188	23189	FC2C	LT 0.0382	LT 0.0451	LT 0.0469	0.4570	2.5000	LT 0.0174	LT 0.1020	LT 0.0399	1.3300	0.0310
06/27/89	23191	23192	FC3	LT 0.0382	LT 0.0451	LT 0.0469	0.3890	1.6600	LT 0.0174	LT 0.1020	LT 0.0399	1.2700	0.0890
06/27/89	23194	23195	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.4610	1.7000	LT 0.0174	LT 0.1020	LT 0.0399	1.2400	0.0810
06/27/89	23197	23198	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.4730	1.7500	LT 0.0174	LT 0.1020	LT 0.0399	1.2400	0.0860
06/27/89	23206	23207	RF51	LT 0.0382	LT 0.0451	LT 0.0469	0.3440	3.3500	LT 0.0174	LT 0.1020	LT 0.0399	0.9510	0.6110
07/3/89	23213	23214	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.4010	2.9100	LT 0.0174	LT 0.1020	LT 0.0399	1.3200	0.0310
07/3/89	23217	23218	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.3140	2.4900	LT 0.0174	LT 0.1020	LT 0.0399	0.7130	0.0714
07/3/89	23219	23220	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.3840	2.6100	LT 0.0174	LT 0.1020	LT 0.0399	1.0200	0.0840
07/9/89	23224	23225	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.3120	2.4400	LT 0.0174	LT 0.1020	LT 0.0399	0.5420	0.0310
07/9/89	23227	23228	FC2B	LT 0.0382	LT 0.0451	LT 0.0469	0.2190	1.6800	LT 0.0174	LT 0.1020	LT 0.0399	0.1770	0.0310
07/9/89	23230	23231	FC3	LT 0.0382	LT 0.0451	LT 0.0469	0.3580	2.5700	LT 0.0174	LT 0.1020	LT 0.0399	0.4740	0.0840
07/9/89	23233	23234	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.2980	1.5900	LT 0.0174	LT 0.1020	LT 0.0399	0.3140	0.0310
07/9/89	23236	23237	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.2910	1.6700	LT 0.0174	LT 0.1020	LT 0.0399	0.4170	0.0840

440101 436 1 440101 0/4 - 0

100% - Detected on 1/10/2000

GGT - Value Is Above CRL: No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 4

Sample	Field Sample	Site id	1.1.1-	1.1.2-	1.1-	1.2-	1.2-	Carbon	Methylene	Tetrachloride	Chlorobenzene	Chlorobenzene		
Date	Number		Trichloroethane	Trichloroethane	Dichloroethane	Dichloroethane	Dichloroethane	Benzene	Bis-chloroethadiene	Chloroform	Chlorobenzene	Chlorobenzene		
07/15/89	23241	23242	FC1	1.2100	LT 0.0295	LT 0.0243	LT 0.0208	0.4320	LT 0.0417	1.1500	0.6120	2.0500	0.1630	LT 0.0330
07/15/89	23243	23244	FC2	1.3400	LT 0.0295	LT 0.0243	LT 0.0208	0.5300	LT 0.0417	1.3400	0.6830	0.6280	0.6280	LT 0.0330
07/15/89	23247	23248	FC3	1.2600	LT 0.0295	LT 0.0243	LT 0.0208	0.5760	LT 0.0417	1.1500	0.6810	4.2400	0.1110	LT 0.0330
07/15/89	23249	23250	FC4	1.5300	LT 0.0295	LT 0.0243	LT 0.0208	0.5320	LT 0.0417	1.4900	0.5900	3.5600	0.1500	LT 0.0330
07/15/89	23251	23252	FC5	1.3600	LT 0.0295	LT 0.0243	LT 0.0208	0.5730	LT 0.0417	1.1500	0.5620	6.7700	0.2370	LT 0.0330
07/21/89	23254	23255	FC1	1.0400	LT 0.0295	LT 0.0243	LT 0.0208	0.1890	LT 0.0417	1.1400	0.3430	0.3540	0.0797	LT 0.0330
07/21/89	23257	23258	FC2	0.7470	LT 0.0295	LT 0.0243	LT 0.0208	0.2220	LT 0.0417	0.7220	0.2430	0.1730	0.1000	LT 0.0330
07/21/89	23260	23261	FC20	0.7630	LT 0.0295	LT 0.0243	LT 0.0208	0.2730	LT 0.0417	0.6770	0.2660	0.1980	0.1170	LT 0.0330
07/21/89	23263	23264	FC3	0.8770	LT 0.0295	LT 0.0243	LT 0.0208	0.1760	LT 0.0417	0.9360	0.3190	0.2590	0.0396	LT 0.0330
07/21/89	23266	23267	FC4	0.6630	LT 0.0295	LT 0.0243	LT 0.0208	0.0323	LT 0.0417	0.7710	0.2670	0.8480	0.0301	LT 0.0330
07/21/89	23269	23270	FC5	0.7140	LT 0.0295	LT 0.0243	0.0258	0.1360	LT 0.0417	0.7160	0.2740	2.8600	0.0399	LT 0.0330
07/27/89	23274	23275	FC1	1.3300	LT 0.0295	LT 0.0243	LT 0.0208	0.5520	LT 0.0417	0.6250	0.2010	0.4140	0.1650	LT 0.0330
07/27/89	23276	23277	FC2	1.3500	LT 0.0295	LT 0.0243	0.0358	0.7290	LT 0.0417	0.6540	0.2030	0.4170	0.3580	LT 0.0330
07/27/89	23278	23279	FC3	1.7700	LT 0.0295	LT 0.0243	LT 0.0208	0.1110	LT 0.0417	0.8950	0.3050	0.3450	0.1010	LT 0.0330
07/27/89	23280	23281	FC4	1.9800	LT 0.0295	LT 0.0243	LT 0.0208	0.7170	LT 0.0417	0.9670	0.3470	0.3750	0.1170	LT 0.0330
07/27/89	23282	23283	FC5	1.0800	LT 0.0295	LT 0.0243	LT 0.0208	0.7720	LT 0.0417	0.5700	0.2110	0.3640	0.1360	LT 0.0330
08/2/89	23287	23288	FC4	1.4900	LT 0.0295	LT 0.0243	LT 0.0208	1.1400	LT 0.0417	2.0900	0.3420	1.1400	0.0300	LT 0.0330

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 10

Sample Date	Field Sample Number	Site Id	Dibromochloroethane	Dichlorodisulfide	Ethylbenzene	Toluene	Methylisobutyl Ketone	diethylamine	Trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Meta- & Para-Trisopropylbenzene		
07/15/89	23241	23242	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.3040	1.4500	LT 0.0174	LT 0.1020	LT 0.0399	0.4600	0.2529	1.1500
07/15/89	23243	23244	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.4240	1.8700	LT 0.0174	LT 0.1020	LT 0.0399	0.4910	LT 0.0330	1.1500
07/15/89	23247	23248	FC3	LT 0.0382	LT 0.0451	LT 0.0469	0.3960	1.3700	LT 0.0174	LT 0.1020	LT 0.0399	0.3920	LT 0.0330	1.1500
07/15/89	23249	23250	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.4260	2.0900	LT 0.0174	LT 0.1020	LT 0.0399	0.4540	LT 0.0330	1.1500
07/15/89	23251	23252	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.4660	2.0100	LT 0.0174	LT 0.1020	LT 0.0399	0.3940	0.5410	1.4000
07/21/89	23254	23255	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.1430	1.1400	LT 0.0174	LT 0.1020	LT 0.0399	0.3300	0.1650	0.6400
07/21/89	23258	23259	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.1490	1.2200	LT 0.0174	LT 0.1020	LT 0.0399	0.2400	LT 0.0330	0.5700
07/21/89	23260	23261	FC20	LT 0.0382	LT 0.0451	LT 0.0469	0.1750	1.1900	LT 0.0174	LT 0.1020	LT 0.0399	0.2440	LT 0.0330	0.6400
07/21/89	23263	23264	FC3	LT 0.0382	LT 0.0451	LT 0.0469	0.1440	1.2700	LT 0.0174	LT 0.1020	LT 0.0399	0.1760	LT 0.0330	0.5300
07/21/89	23266	23267	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.0373	61	0.3470	LT 0.0174	LT 0.0399	0.1550	LT 0.0330	LT 0.0330
07/21/89	23269	23270	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.1330	1.5200	LT 0.0174	LT 0.1020	LT 0.0399	0.2360	0.1450	0.5000
07/27/89	23274	23275	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.4140	2.0000	LT 0.0174	LT 0.1020	LT 0.0399	1.1100	0.1520	1.2500
07/27/89	23276	23277	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.5560	2.1500	LT 0.0174	LT 0.1020	LT 0.0399	1.1500	LT 0.0330	1.1500
07/27/89	23278	23279	FC3	LT 0.0382	LT 0.0451	LT 0.0469	0.1640	1.0500	LT 0.0174	LT 0.1020	LT 0.0399	0.7500	LT 0.0330	0.5700
07/27/89	23280	23281	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.5800	2.1200	LT 0.0174	LT 0.1020	LT 0.0399	1.1200	LT 0.0330	0.5700
07/27/89	23282	23283	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.5610	2.8700	LT 0.0174	LT 0.1020	LT 0.0399	1.4400	0.1330	1.1500
08/2/89	23287	23288	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.9920	6.0000	LT 0.0174	LT 0.1020	LT 0.0399	0.4000	LT 0.0330	0.5700

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN US/RS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDING ESTIMATED VALUES ABOVE THE CRL

Page 11

Sample Date	Field Sample Number	Site id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichlorobenzene	Bis(1-chloroethyl)benzene	Carbon Tetrachloride	Methylene Chloride	Chloroform			
08/08/89	23289	23290	FC1	1.2200	LT 0.0295	LT 0.0243	LT 0.0208	0.3040	LT 0.0417	1.1600	0.2240	3.4300	0.1870	LT 0.0330
08/08/89	23291	23292	FC2	1.1700	LT 0.0295	LT 0.0243	0.0364	0.9190	LT 0.0417	1.2700	0.2830	3.2600	0.4160	LT 0.0330
08/08/89	23293	23294	FC3	1.2500	LT 0.0295	LT 0.0243	LT 0.0208	0.7270	LT 0.0417	1.1400	0.2590	3.1500	0.1170	LT 0.0330
08/08/89	23295	23296	FC4	1.4000	LT 0.0295	LT 0.0243	LT 0.0208	0.9590	LT 0.0417	1.4400	0.2710	4.0600	0.1520	LT 0.0330
08/08/89	23297	23298	FC5	0.9710	LT 0.0295	LT 0.0243	LT 0.0208	0.6570	LT 0.0417	1.1600	0.2290	3.5700	0.2140	LT 0.0330
08/16/89	23302	23303	FC1	1.0300	LT 0.0295	LT 0.0243	LT 0.0208	1.3200	LT 0.0417	1.1700	0.2790	0.4590	0.1100	LT 0.0330
08/16/89	23305	23306	FC2	1.1100	LT 0.0295	LT 0.0243	LT 0.0208	1.3700	LT 0.0417	1.1600	0.2940	0.2300	0.1420	LT 0.0330
08/16/89	23308	23309	FC20	0.9090	LT 0.0295	LT 0.0243	LT 0.0208	1.4500	LT 0.0417	1.2000	0.2400	0.2000	0.2180	LT 0.0330
08/16/89	23311	23312	FC3	1.0700	LT 0.0295	LT 0.0243	LT 0.0208	1.3600	LT 0.0417	1.6400	0.2980	0.4000	0.0664	LT 0.0330
08/16/89	23317	23318	FC5	0.5730	LT 0.0295	LT 0.0243	LT 0.0208	1.3100	LT 0.0417	1.1600	0.2130	0.3390	0.1170	LT 0.0330
08/20/89	23322	23323	FC20	0.7670	LT 0.0295	LT 0.0243	LT 0.0208	0.5300	LT 0.0417	0.9390	0.2690	0.8200	0.4200	LT 0.0330
08/20/89	23324	23325	FC4	1.1500	LT 0.0295	LT 0.0243	LT 0.0208	0.7190	LT 0.0417	1.4000	0.3480	1.1200	0.1450	LT 0.0330
08/20/89	23326	23327	FC5	0.9790	LT 0.0295	LT 0.0243	0.0360	0.5940	LT 0.0417	1.2700	0.2900	0.8950	0.3390	LT 0.0330
08/26/89	23337	23338	FC1	1.3700	LT 0.0295	LT 0.0243	LT 0.0208	0.5990	LT 0.0417	1.1200	0.2310	0.4390	0.1270	LT 0.0330
08/26/89	23339	23340	FC2	1.0200	LT 0.0295	LT 0.0243	LT 0.0208	0.5990	LT 0.0417	1.1000	0.2910	0.5390	0.1740	LT 0.0330
08/26/89	23341	23342	FC20	0.3960	LT 0.0295	LT 0.0243	LT 0.0208	0.5020	LT 0.0417	0.2640	0.2450	0.3140	0.1240	LT 0.0330
08/26/89	23343	23344	FC3	1.1000	LT 0.0295	LT 0.0243	LT 0.0208	0.4930	LT 0.0417	1.1000	0.3090	0.3410	0.0230	LT 0.0330

a - t/c weight 7.25t weight

b - Detected on t/c only

ST - Value is Above CRL : No Estimate Available

ALL UNITS ARE IN UC/H3

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Sample Field Sample Site Id Dibromochloropropane Dicyclopentadiene Dimethyldisulfide Ethylbenzene Toluene Methylisobutyl M-Nitroso ketone dimethylamine 2-Dichloroethene Tetrachloroethene Trichloroethylene Methylacetone
Date Number

08/18/89	23289	23290	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.6290	1.9200	LT 0.0174	LT 0.1020	LT 0.0399	0.5590	0.0635	1.9500
08/18/89	23291	23292	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.7770	2.9700	LT 0.0174	LT 0.1020	LT 0.0399	0.6010	0.0635	2.2500
08/18/89	23293	23294	FC3	LT 0.0382	LT 0.0451	LT 0.0469	0.5540	1.8700	LT 0.0174	LT 0.1020	LT 0.0399	0.4500	0.0635	1.9000
08/18/89	23295	23296	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.7010	2.1400	LT 0.0174	LT 0.1020	LT 0.0399	0.5170	0.0635	1.9500
08/18/89	23297	23298	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.6790	1.8000	LT 0.0174	LT 0.1020	LT 0.0399	0.5000	0.1990	1.7100
08/16/89	23302	23303	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.9610	6T 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.5690	0.0651	2.6350
08/16/89	23305	23306	FC2	LT 0.0382	LT 0.0451	LT 0.0469	1.0100	2.6700	LT 0.0174	LT 0.1020	LT 0.0399	0.6860	LT 0.0330	2.9400
08/16/89	23308	23309	FC20	LT 0.0382	LT 0.0451	LT 0.0469	1.0200	6T 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.6180	LT 0.0450	2.6500
08/16/89	23311	23312	FC3	LT 0.0382	LT 0.0451	LT 0.0469	1.0400	6T 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.5360	LT 0.0330	2.9400
08/16/89	23317	23318	FC5	LT 0.0382	LT 0.0451	LT 0.0469	1.0500	6T 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.5090	0.4420	2.5100
08/20/89	23322	23323	FC20	LT 0.0382	LT 0.0451	LT 0.0469	0.3590	2.1600	LT 0.0174	LT 0.1020	LT 0.0399	0.4520	LT 0.0330	1.7100
08/20/89	23324	23325	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.5400	6T 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.4460	LT 0.0330	2.0100
08/20/89	23326	23327	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.4550	2.0400	LT 0.0174	LT 0.1020	LT 0.0399	0.4970	0.1930	1.7400
08/26/89	23337	23338	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.4950	2.3200	0.1190	LT 0.1020	LT 0.0399	0.5220	0.1730	1.9300
08/26/89	23339	23340	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.4580	2.1600	LT 0.0174	LT 0.1020	LT 0.0399	0.5400	LT 0.0330	1.7100
08/26/89	23341	23342	FC20	LT 0.0382	LT 0.0451	LT 0.0469	0.3450	2.0900	LT 0.0174	LT 0.1020	LT 0.0399	0.5320	LT 0.0551	1.9200
08/26/89	23343	23344	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.3910	2.0200	LT 0.0174	LT 0.1020	LT 0.0399	0.4770	LT 0.0451	1.9300

a - t/c weight 1.05t weight

b - Detected on t/c only

6T - Value Is Above CRL; No Estimate Available

ROCKY MOUNTAIN ARSENAL PROGRAM

TRASCO SERVICES INCORPORATED

ALL UNITS ARE IN UG/M3

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CFI.

Date	Sample	Field Sample	Site id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dibromochloroethane	Benzene	Tetrachloroethane	Chloroform	Carbon	Methylene	Chlorobenzene
08/26/89	23345	23346	FC4	1.2200 a	LT 0.0295	LT 0.0243	LT 0.0208	0.5920	LT 0.0417	1.1200	0.2640	0.4910	0.0502	LT 0.0330
08/26/89	23347	23348	FC5	0.9750 a	LT 0.0295	LT 0.0243	LT 0.0208	0.4880	LT 0.0417	0.9540	0.2870	0.2900	0.0826	LT 0.0330
09/11/89	23351	23352	FC1	0.6440 a	LT 0.0295	LT 0.0243	0.0254 b	0.1020	LT 0.0417	0.4570	0.3650	0.1150	0.1020	LT 0.0330
09/11/89	23353	23354	FC2	0.6890 a	LT 0.0295	LT 0.0243	0.0220 b	0.0508	LT 0.0417	0.4020	0.3370	0.1340	0.2810	LT 0.0330
09/11/89	23355	23356	FC3	0.6610 a	LT 0.0295	LT 0.0243	LT 0.0208	0.0736	LT 0.0417	0.3510	0.3980	0.1430	0.1930	LT 0.0330
09/11/89	23357	23358	FC4	0.6630 a	LT 0.0295	LT 0.0243	0.0227 b	0.0539	LT 0.0417	0.2740	0.3550	0.1410	0.0943	LT 0.0330
09/11/89	23359	23360	FC5	0.5720 b	LT 0.0295	LT 0.0243	LT 0.0208	0.0667	LT 0.0417	0.5840	0.3420	0.1080	0.0958	LT 0.0330
09/17/89	23364	23365	FC1	0.7160 a	LT 0.0295	LT 0.0243	0.0267 b	0.2740	LT 0.0417	0.6560	0.3570	0.2160	0.1480	LT 0.0330
09/17/89	23367	23368	FC2	0.6010 a	LT 0.0295	LT 0.0243	0.0214 b	0.1560	LT 0.0417	0.2690	0.3290	0.1410	0.2090	LT 0.0330
09/17/89	23370	23371	FC20	0.7910 a	LT 0.0295	LT 0.0243	0.0377 b	0.1990	LT 0.0417	0.6130	0.3570	0.1810	0.3140	LT 0.0330
09/17/89	23373	23374	FC3	0.7250 a	LT 0.0295	LT 0.0243	0.0264 b	0.2050	LT 0.0417	0.4720	0.3650	0.1640	0.0710	LT 0.0330
09/17/89	23376	23377	FC4	0.8570 a	LT 0.0295	LT 0.0243	0.0489 b	0.2620	LT 0.0417	0.6560	0.4260	0.1760	0.0843	LT 0.0330
09/17/89	23379	23380	FC5	0.5900 a	LT 0.0295	LT 0.0243	0.0317 b	0.3180	LT 0.0417	0.6630	0.4710	0.2600	0.2240	LT 0.0330
09/13/89	23386	23387	FC2	1.4300 a	LT 0.0295	LT 0.0243	0.0769	0.4560	LT 0.0417	1.1600	0.7920	0.5750	0.7490	LT 0.0330
09/13/89	23388	23389	FC3	1.6900 a	LT 0.0295	LT 0.0243	0.0994	0.6250	LT 0.0417	1.3000	0.9600	0.5740	0.2960	LT 0.0330
09/13/89	23390	23391	FC4	1.5100 b	LT 0.0295	LT 0.0243	0.0891 b	0.5470	LT 0.0417	1.2500	0.8150	0.5020	0.2710	LT 0.0330
09/13/89	23392	23393	FC5	1.3900 a	LT 0.0295	LT 0.0243	0.0829	0.4850	LT 0.0417	1.1700	0.7420	0.5430	0.3100	LT 0.0330

Application 45: 1 Application 4/4 - 1

100 - detected on 1/1/01

EST - Value Is Above CRI: No Estimate Available

ALL UNITS ARE IN UG/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDING ESTIMATED VALUES ABOVE THE CRL

Page 1

Sample	Date	Field Sample	Site	id	Dibromochloropropane	Dichlorodisulfide	Ethylbenzene	Toluene	Methylisobutyl M-Nitroso-	trans-1,2-Dichloroethene	Tetrachloroethene	Isobutene	Propene							
08/26/89	23345	23346	FC4	LT	0.0382	LT	0.0451	LT	0.0469	0.4180	2.2500	0.2000	LT	0.1020	LT	0.0399	0.4550	LT	0.0550	1.5000
08/26/89	23347	23348	FC5	LT	0.0382	LT	0.0451	LT	0.0469	0.3850	2.2000	0.1520	LT	0.1020	LT	0.0399	0.4180	LT	0.0550	1.5000
09/1/89	23351	23352	FC1	LT	0.0382	LT	0.0451	LT	0.0469	0.0781	0.6010	0.0491	LT	0.1020	LT	0.0399	0.2210	LT	0.0550	1.5000
09/1/89	23353	23354	FC2	LT	0.0382	LT	0.0451	LT	0.0469	0.0721	0.5780	0.0605	LT	0.1020	LT	0.0399	0.1640	LT	0.0550	1.5000
09/1/89	23355	23356	FC3	LT	0.0382	LT	0.0451	LT	0.0469	0.0627	0.4710	0.0467	LT	0.1020	LT	0.0399	0.1340	LT	0.0550	1.5000
09/1/89	23357	23358	FC4	LT	0.0382	LT	0.0451	LT	0.0469	0.0618	0.5360	0.0354	LT	0.1020	LT	0.0399	0.1320	LT	0.0550	1.5000
09/1/89	23359	23360	FC5	LT	0.0382	LT	0.0451	LT	0.0469	0.0530	0.4170	0.0378	LT	0.1020	LT	0.0399	0.0984	LT	0.0550	1.5000
09/7/89	23364	23365	FC1	LT	0.0382	LT	0.0451	LT	0.0469	0.1920	1.1100	0.0773	LT	0.1020	LT	0.0399	0.2740	LT	0.0550	1.5000
09/7/89	23367	23368	FC2	LT	0.0382	LT	0.0451	LT	0.0469	0.1020	0.7330	0.0395	LT	0.1020	LT	0.0399	0.1770	LT	0.0550	1.5000
09/7/89	23370	23371	FC20	LT	0.0382	LT	0.0451	LT	0.0469	0.1410	0.9160	0.0636	LT	0.1020	LT	0.0399	0.1980	LT	0.0550	1.5000
09/7/89	23373	23374	FC3	LT	0.0382	LT	0.0451	LT	0.0469	0.1390	1.0100	0.0572	LT	0.1020	LT	0.0399	0.1700	LT	0.0550	1.5000
09/7/89	23376	23377	FC4	LT	0.0382	LT	0.0451	LT	0.0469	0.1270	1.1200	0.0728	LT	0.1020	LT	0.0399	0.1880	LT	0.0550	1.5000
09/7/89	23379	23380	FC5	LT	0.0382	LT	0.0451	LT	0.0469	0.2130	1.5400	0.0945	LT	0.1020	LT	0.0399	0.2920	LT	0.0550	1.5000
09/13/89	23386	23387	FC2	LT	0.0382	LT	0.0451	LT	0.0469	0.3580	1.9900	0.0451	LT	0.1020	LT	0.0399	0.3300	LT	0.0550	1.5000
09/13/89	23388	23389	FC3	LT	0.0382	LT	0.0451	LT	0.0469	0.4690	2.1100	0.0525	LT	0.1020	LT	0.0399	0.4000	LT	0.0550	1.5000
09/13/89	23390	23391	FC4	LT	0.0382	LT	0.0451	LT	0.0469	0.4190	1.9200	0.0447	LT	0.1020	LT	0.0399	0.3380	LT	0.0550	1.5000
09/13/89	23392	23393	FC5	LT	0.0382	LT	0.0451	LT	0.0469	0.3980	1.8100	0.0440	LT	0.1020	LT	0.0399	0.3300	LT	0.0550	1.5000

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above CRL: No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 15

Sample	Field Sample	Site Id	1,1,1-	1,1,2-	1,2-	1,2-	Carbon	Methylene	Chloroethane	Dichloroethane	Trichloroethane	Dichlorobenzene	Benzene	Tetrachloride	Chloroform	Chlorobenzene
09/19/89	23397	23398	FC1	1.2500	LT 0.0295	LT 0.0243	0.0254	0.1630	LT 0.0417	1.1400	0.5660	0.7670	0.3310	LT 0.0330	a	
09/19/89	23400	23401	FC2	1.2300	LT 0.0295	LT 0.0243	0.0421	0.3770	LT 0.0417	1.3700	0.4220	0.5140	0.4200	LT 0.0330	b	
09/19/89	23403	23404	FC20	1.3400	LT 0.0295	LT 0.0243	0.0334	0.4110	LT 0.0417	1.3400	0.4600	0.6510	0.5030	LT 0.0330	a	
09/19/89	23406	23407	FC3	1.3500	LT 0.0295	LT 0.0243	0.0365	0.6030	LT 0.0417	1.3100	0.5790	0.4610	0.1500	LT 0.0330	b	
09/19/89	23409	23410	FC4	1.3600	LT 0.0295	LT 0.0243	0.0325	0.4380	LT 0.0417	1.4300	0.5600	0.3830	0.1440	LT 0.0330	a	
09/19/89	23412	23413	FC5	1.4100	LT 0.0295	LT 0.0243	0.0327	0.7610	LT 0.0417	1.4500	0.5840	0.4350	0.3290	LT 0.0330	b	
09/25/89	23417	23418	FC1	1.6700	LT 0.0295	LT 0.0243	0.0392	1.5600	LT 0.0417	2.4300	0.4340	0.6690	0.3290	LT 0.0330	a	
09/25/89	23419	23420	FC2	1.7900	LT 0.0295	LT 0.0243	LT 0.0208	1.7600	LT 0.0417	2.7200	0.4630	0.4480	0.3020	LT 0.0330	b	
09/25/89	23421	23422	FC3	1.8000	LT 0.0295	LT 0.0243	0.0311	1.7000	LT 0.0417	2.7800	0.5710	0.6200	0.1870	LT 0.0330	a	
09/25/89	23423	23424	FC4	1.7900	LT 0.0295	LT 0.0243	LT 0.0208	1.8100	LT 0.0417	3.0000	0.4590	0.6620	0.1900	LT 0.0330	b	

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN US/BS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRI

Page 1*

Sample	Field Sample	Site Id	Dibromochloropropane	Dicyclopentadiene	Dimethylsulfide	Ethylbenzene	Toluene	Methylisobutyl Ketone	N-Nitrosodimethylamine	Trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Para-xylene	
Date	Number													
09/19/89	23397	23398	FC1	LT 0.0382	LT 0.0451	LT 0.0469	0.1470	1.7800	LT 0.0174	LT 0.1020	LT 0.0399	0.4560	0.0792	0.4470
09/19/89	23400	23401	FC2	LT 0.0382	LT 0.0451	LT 0.0469	0.3236	6T 0.3470	0.0214	LT 0.1020	LT 0.0399	0.4110	LT 0.0450	1.2376
09/19/89	23403	23404	FC20	LT 0.0382	LT 0.0451	LT 0.0469	0.2770	2.8100	0.0914	LT 0.1020	LT 0.0399	0.4110	0.0514	1.3400
09/19/89	23406	23407	FC3	LT 0.0382	LT 0.0451	LT 0.0469	0.4410	2.8700	0.0982	LT 0.1020	LT 0.0399	0.5040	0.0844	1.4300
09/19/89	23409	23410	FC4	LT 0.0382	LT 0.0451	LT 0.0469	0.4530	6T 0.3470	0.1210	LT 0.1020	LT 0.0399	0.4180	0.0679	1.5700
09/19/89	23412	23413	FC5	LT 0.0382	LT 0.0451	LT 0.0469	0.5800	3.4200	0.1400	LT 0.1020	LT 0.0399	0.4710	0.3780	1.9400
09/25/89	23417	23418	FC1	LT 0.0382	LT 0.0451	LT 0.0469	1.0400	6T 0.3470	0.1410	LT 0.1020	LT 0.0399	1.2500	0.1010	1.0610
09/25/89	23419	23420	FC2	LT 0.0382	LT 0.0451	LT 0.0469	1.2400	6T 0.3470	0.1510	LT 0.1020	LT 0.0399	1.3400	0.1010	1.3100
09/25/89	23421	23422	FC3	LT 0.0382	LT 0.0451	LT 0.0469	1.1900	6T 0.3470	0.2000	LT 0.1020	LT 0.0399	1.2600	0.0927	1.5700
09/25/89	23423	23424	FC4	LT 0.0382	LT 0.0451	LT 0.0469	1.2500	6T 0.3470	0.2140	LT 0.1020	LT 0.0399	1.2900	0.1140	1.4400

a - t/c weight 0.25t weight

b - Detected on t/c only

GT - Value Is Above CRI; No Estimate Available

APPENDIX S
IRA-F Semi-Volatile Organic Compounds (SVOC) Data

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ATRAZINE	CHLORDANE	CHLOROPHENYL METHYLSULFOXYIDE	CHLOROPHENYL METHYLSULFONE	DIELDRIN	ENDRIN
05/10/89	16105	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/10/89	16106	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/10/89	16107	FC2D	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/10/89	16109	BF3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/10/89	16111	BF7	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/10/89	16112	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/10/89	16113	BF5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/16/89	16115	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/16/89	22001	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/16/89	22002	BF3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/16/89	22004	BF5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/16/89	22005	BF7	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/16/89	22006	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/22/89	22008	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/22/89	22009	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/22/89	22010	FC2D	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/22/89	22012	BF3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/22/89	22014	BF5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/22/89	22015	BF7	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/22/89	22016	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/28/89	22017	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/28/89	22019	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/28/89	22020	BF3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/28/89	22022	BF5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
05/28/89	22023	BF7	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN UG/M3

FIELD		SITE ID	ISODRIN	MALATHION	DDE	DDT	PARATHION	SUPONA
SAMPLE DATE	SAMPLE NUMBER							
05/10/89	16105	FC1	LT 0.0451	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0181	LT 0.0417
05/10/89	16106	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/10/89	16107	FC20	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/10/89	16109	BF3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/10/89	16111	BF7	LT 0.0451	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0181	LT 0.0417
05/10/89	16112	RIF31	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/10/89	16113	BF5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0417
05/16/89	16115	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0417
05/16/89	22001	FC2	LT 0.0451	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0131	LT 0.0417
05/16/89	22002	BF3	LT 0.0451	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0181	LT 0.0417
05/16/89	22004	BF5	LT 0.0451	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0131	LT 0.0417
05/16/89	22005	BF7	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0417
05/16/89	22006	RIF31	LT 0.0451	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0181	LT 0.0417
05/22/89	22008	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0131	LT 0.0417
05/22/89	22009	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0417
05/22/89	22010	FC20	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0417
05/22/89	22012	BF3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/22/89	22014	BF5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/22/89	22015	BF7	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/22/89	22016	RIF31	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0417
05/28/89	22017	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/28/89	22019	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0417
05/28/89	22020	BF3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0131	LT 0.0181	LT 0.0417
05/28/89	22022	BF5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/28/89	22023	BF7	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN UG/M3

FIELD		SITE ID			CHLOROPHENYL	CHLOROPHENYL	DIELDRIN	ENDRIN
SAMPLE DATE	SAMPLE NUMBER		ATRAZINE	CHLORDANE	METHYLSULFOXIDE	METHYLSULFONE		
05/28/89	22024	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/3/89	22027	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/3/89	22028	FC20	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/3/89	22029	BF3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/3/89	22031	BF5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/3/89	22032	BF7	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/3/89	22033	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/9/89	22035	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/9/89	22036	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/9/89	22037	BF3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/9/89	22039	BF5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/9/89	22040	BF7	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
06/9/89	22041	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/9/89	19953	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/9/89	19988	FC20	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/9/89	19989	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/9/89	19990	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/9/89	19991	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/15/89	19994	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/15/89	19995	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/15/89	19996	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/15/89	19997	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/21/89	19999	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/21/89	20000	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/21/89	22501	FC20	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN UG/M3

FIELD		SITE						
SAMPLE	SAMPLE							
DATE	NUMBER	ID	ISODRIN	MALATHION	DDE	DDT	PARATHION	SUPONA
05/28/89	22024	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/3/89	22027	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/3/89	22028	FC2D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/3/89	22029	BF3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/3/89	22031	BF5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/3/89	22032	BF7	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/3/89	22033	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/9/89	22035	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/9/89	22036	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/9/89	22037	BF3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/9/89	22039	BF5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/9/89	22040	BF7	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
06/9/89	22041	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/9/89	19958	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/9/89	19988	FC2D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/9/89	19989	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/9/89	19990	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/9/89	19991	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/15/89	19994	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/15/89	19995	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/15/89	19996	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/15/89	19997	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/21/89	19999	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/21/89	20000	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/21/89	22501	FC2D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ATRAZINE	CHLORDANE	CHLOROPHENYL METHYLSULFOXIDE	CHLOROPHENYL METHYLSULFONE	DIELDRIN	ENDRIN
07/21/89	22502	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/21/89	22503	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/21/89	22504	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/27/89	22506	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/27/89	22507	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/27/89	22508	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/27/89	22509	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
07/27/89	22510	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/3/89	22548	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/3/89	22549	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/3/89	22550	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/3/89	22551	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/3/89	22552	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/14/89	22554	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/14/89	22555	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/14/89	22556	FC2D	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/14/89	22557	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/14/89	22558	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/14/89	22559	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/20/89	22572	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/20/89	22574	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/20/89	22575	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/20/89	22576	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/26/89	22578	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/26/89	22579	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ISODRIN	MALATHION	DDE	DDT	PARATHION	SUPONA
07/21/89	22502	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/21/89	22503	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/21/89	22504	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/27/89	22506	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/27/89	22507	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/27/89	22508	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/27/89	22509	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
07/27/89	22510	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/8/89	22548	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/8/89	22549	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/8/89	22550	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/8/89	22551	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/8/89	22552	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/14/89	22554	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/14/89	22555	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/14/89	22556	FC2D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/14/89	22557	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/14/89	22558	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/14/89	22559	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/20/89	22572	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/20/89	22574	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/20/89	22575	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/20/89	22576	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/26/89	22578	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/26/89	22579	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN µG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID						
			ATRAZINE	CHLORDANE	CHLOROPHENYL METHYLSULFOXIDE	CHLOROPHENYL METHYLSULFONE	DIELDRIN	ENDRIN
08/26/89	22580	FC20	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/26/89	22581	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/26/89	22582	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
08/26/89	22583	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/1/89	22255	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/1/89	22256	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/1/89	22257	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/1/89	22258	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/1/89	22259	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/7/89	22241	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/7/89	22242	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/7/89	22243	FC20	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/7/89	22244	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/7/89	22245	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/7/89	22246	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/13/89	22248	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/13/89	22249	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/13/89	22250	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/13/89	22272	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/13/89	22274	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/19/89	22271	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/19/89	22273	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/19/89	22275	FC20	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/19/89	22277	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/19/89	22278	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ISODRIN	MALATHION	DDE	DDT	PARATHION	SUPONA
08/26/89	22580	FC20	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/26/89	22581	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/26/89	22582	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
08/26/89	22583	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/1/89	22255	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/1/89	22256	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/1/89	22257	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/1/89	22258	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/1/89	22259	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/7/89	22241	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/7/89	22242	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/7/89	22243	FC20	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/7/89	22244	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/7/89	22245	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/7/89	22246	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/13/89	22248	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/13/89	22249	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/13/89	22250	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/13/89	22272	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/13/89	22274	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/19/89	22271	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/19/89	22273	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/19/89	22275	FC20	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/19/89	22277	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/19/89	22278	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417

SUMMARY OF SEMI-VOLATILES FOR IIRAF

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD		ATRAZINE	CHLORDANE	CHLOROPHENYL METHYLSULFOXIDE	CHLOROPHENYL METHYLSULFONE	DIELDRIN	ENDRIN
	SAMPLE NUMBER	SITE ID						
09/19/89	22279	FC5	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/25/89	22281	FC1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/25/89	22282	FC2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/25/89	22283	FC3	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
09/25/89	22284	FC4	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212

SUMMARY OF SEMI-VOLATILES FOR IRAF

ALL UNITS ARE IN µG/M3

FIELD		SITE						
SAMPLE DATE	SAMPLE NUMBER		ISODRIN	MALATHION	DDE	DDT	PARATHION	SUPONA
09/19/89	22279	FC5	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/25/89	22281	FC1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/25/89	22282	FC2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/25/89	22283	FC3	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
09/25/89	22284	FC4	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417

APPENDIX T
IRA-F Organics in Total Suspended Particulates (OTSP) Data

SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

[RAF

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDE RESULTS	PPDT RESULTS
05/10/89	16105	FC1	0.0041	0.0010	0.0130	0.0014	0.0005	LT 0.0003	LT 0.0003
05/10/89	16106	FC2	0.0103	0.0011	0.0293	0.0032	0.0011	LT 0.0003	LT 0.0003
05/10/89	16107	FC20	0.0088	0.0010	0.0296	0.0034	0.0106	LT 0.0003	LT 0.0003
05/10/89	16109	BF3	0.0009	0.0007	0.0092	0.0010	LT 0.0003	LT 0.0003	LT 0.0003
05/10/89	16111	BF7	LT 0.0003	LT 0.0004	0.0009	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
05/10/89	16112	RIFS1	LT 0.0003	LT 0.0004	0.0009	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
05/10/89	16113	BF5	0.0003	LT 0.0004	0.0016	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
05/16/89	16115	FC1	0.0009	0.0004	0.0006	0.0007	LT 0.0003	LT 0.0003	LT 0.0003
05/16/89	22001	FC2	0.0029	0.0005	0.0151	0.0017	0.0004	LT 0.0003	LT 0.0003
05/16/89	22002	BF3	0.0010	0.0008	0.0133	0.0013	0.0004	LT 0.0003	0.0004
05/16/89	22004	BF5	0.0004	LT 0.0004	0.0022	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
05/16/89	22005	BF7	0.0004	0.0006	0.0033	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
05/16/89	22006	RIFS1	LT 0.0003	LT 0.0004	0.0007	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
05/22/89	22008	FC1	LT 0.0003	LT 0.0004	0.0035	0.0007	LT 0.0003	LT 0.0003	LT 0.0003
05/22/89	22009	FC2	0.0006	0.0004	0.0074	0.0012	0.0007	LT 0.0003	0.0004
05/22/89	22010	FC20	0.0004	0.0005	0.0070	0.0010	0.0006	LT 0.0003	LT 0.0003
05/22/89	22012	BF3	LT 0.0003	0.0003	0.0022	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
05/22/89	22014	BF5	LT 0.0003	LT 0.0004	0.0014	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
05/22/89	22015	BF7	LT 0.0003	LT 0.0004	0.0011	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
05/22/89	22016	RIFS1	LT 0.0003	LT 0.0004	0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
05/28/89	22017	FC1	LT 0.0003	0.0004	0.0037	0.0007	LT 0.0003	LT 0.0003	LT 0.0003
05/28/89	22019	FC2	LT 0.0003	0.0004	0.0055	0.0010	0.0007	LT 0.0003	LT 0.0003
05/28/89	22020	BF3	LT 0.0003	0.0007	0.0028	0.0006	0.0005	LT 0.0003	LT 0.0003
05/28/89	22022	BF5	LT 0.0003	LT 0.0004	0.0009	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
05/28/89	22023	BF7	LT 0.0003	LT 0.0004	0.0011	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
05/28/89	22024	RIFS1	LT 0.0003	LT 0.0004	0.0005	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
06/3/89	22027	FC2	0.0011	0.0006	0.0221	0.0023	0.0004	LT 0.0003	LT 0.0003
06/3/89	22028	FC20	0.0009	0.0006	0.0237	0.0025	0.0005	LT 0.0003	LT 0.0003
06/3/89	22029	BF3	0.0004	0.0006	0.0133	0.0014	LT 0.0003	LT 0.0003	LT 0.0003
06/3/89	22031	BF5	LT 0.0003	0.0005	0.0023	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
06/3/89	22032	BF7	LT 0.0003	0.0004	0.0026	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
06/3/89	22033	RIFS1	LT 0.0003	LT 0.0004	0.0012	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
06/9/89	22035	FC1	0.0003	0.0010	0.0133	0.0015	0.0005	LT 0.0003	LT 0.0003
06/9/89	22036	FC2	0.0013	0.0015	0.0362	0.0045	0.0007	LT 0.0003	LT 0.0003
06/9/89	22037	BF3	0.0006	0.0019	0.0209	0.0021	0.0006	LT 0.0003	LT 0.0003
06/9/89	22039	BF5	LT 0.0003	LT 0.0004	0.0007	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
06/9/89	22040	BF7	LT 0.0003	0.0010	0.0053	0.0006	0.0005	LT 0.0003	LT 0.0003
06/9/89	22041	RIFS1	LT 0.0003	0.0007	0.0033	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
07/9/89	19958	FC2	LT 0.0003	LT 0.0004	0.0022	0.0007	LT 0.0003	LT 0.0003	LT 0.0003
07/9/89	19988	FC20	LT 0.0003	LT 0.0004	0.0022	0.0006	LT 0.0003	LT 0.0003	LT 0.0003
07/9/89	19989	FC3	LT 0.0003	LT 0.0004	0.0016	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
07/9/89	19990	FC4	LT 0.0003	LT 0.0004	0.0007	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
07/9/89	19991	FC5	LT 0.0003	LT 0.0004	0.0010	0.0005	LT 0.0003	LT 0.0003	LT 0.0003
07/15/89	19994	FC2	0.0011	0.0012	0.0040	0.0021	0.0009	LT 0.0003	0.0010
07/15/89	19995	FC3	0.0006	0.0008	0.0205	0.0008	0.0005	LT 0.0003	LT 0.0003
07/15/89	19996	FC4	0.0006	0.0007	0.0067	0.0010	0.0004	LT 0.0003	LT 0.0003
07/15/89	19997	FC5	0.0005	0.0007	0.0050	0.0008	LT 0.0003	LT 0.0003	LT 0.0003
07/21/89	19999	FC1	LT 0.0003	LT 0.0004	0.0009	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
07/21/89	20000	FC2	LT 0.0003	0.0004	0.0019	0.0005	0.0004	LT 0.0003	LT 0.0003
07/21/89	22501	FC20	LT 0.0003	LT 0.0004	0.0017	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
07/21/89	22502	FC3	LT 0.0003	0.0004	0.0015	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003

SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS

IRAF

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDDE RESULTS	PPDPT RESULTS
07/21/89	22503	FC4	LT 0.0003	LT 0.0004	0.0008	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
07/21/89	22504	FC5	LT 0.0003	LT 0.0004	0.0009	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
07/27/89	22506	FC1	LT 0.0003	LT 0.0004	0.0012	0.0004	0.0004	LT 0.0003	LT 0.0003
07/27/89	22507	FC2	LT 0.0003	0.0005	0.0021	0.0005	0.0004	LT 0.0003	LT 0.0003
07/27/89	22508	FC3	LT 0.0003	0.0004	0.0022	0.0004	0.0004	LT 0.0003	LT 0.0003
07/27/89	22509	FC4	LT 0.0003	LT 0.0004	0.0010	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
07/27/89	22510	FC5	LT 0.0003	LT 0.0004	0.0014	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
08/8/89	22548	FC1	0.0007	0.0004	0.0081	0.0007	LT 0.0003	LT 0.0003	LT 0.0003
08/8/89	22549	FC2	0.0028	0.0010	0.0293	0.0020	0.0006	LT 0.0003	LT 0.0003
08/8/89	22550	FC3	0.0017	0.0007	0.0240	0.0009	LT 0.0003	LT 0.0003	LT 0.0003
08/8/89	22551	FC4	0.0016	LT 0.0004	0.0148	0.0008	0.0003	LT 0.0003	LT 0.0003
08/8/89	22552	FC5	0.0010	0.0003	0.0370	0.0003	LT 0.0003	LT 0.0003	LT 0.0003
08/14/89	22554	FC1	0.0010	0.0008	0.0188	0.0012	LT 0.0003	LT 0.0003	LT 0.0003
08/14/89	22555	FC2	0.0027	0.0012	0.0444	0.0027	LT 0.0003	LT 0.0003	LT 0.0003
08/14/89	22556	FC20	0.0026	0.0011	0.0424	0.0026	LT 0.0003	LT 0.0003	LT 0.0003
08/14/89	22557	FC3	0.0006	0.0013	0.0172	0.0009	LT 0.0003	LT 0.0003	LT 0.0003
08/14/89	22558	FC4	0.0006	0.0004	0.0160	0.0012	LT 0.0003	LT 0.0003	LT 0.0003
08/14/89	22559	FC5	0.0008	0.0006	0.0159	0.0008	LT 0.0003	LT 0.0003	LT 0.0003
08/20/89	22572	FC1	0.0010	0.0003	0.0346	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
08/20/89	22574	FC3	LT 0.0003	LT 0.0004	0.0016	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
08/20/89	22575	FC4	0.0008	LT 0.0004	0.0057	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
08/20/89	22576	FC5	0.0005	LT 0.0004	0.0041	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
08/26/89	22578	FC1	LT 0.0003	LT 0.0004	0.0011	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
08/26/89	22579	FC2	LT 0.0003	LT 0.0004	0.0027	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
08/26/89	22580	FC20	LT 0.0003	LT 0.0004	0.0033	0.0004	LT 0.0003	LT 0.0003	LT 0.0003
08/26/89	22581	FC3	LT 0.0003	LT 0.0004	0.0019	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
08/26/89	22582	FC4	LT 0.0003	LT 0.0004	0.0015	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
08/26/89	22583	FC5	LT 0.0003	LT 0.0004	0.0013	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/1/89	22255	FC1	LT 0.0003	LT 0.0004	0.0007	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/1/89	22256	FC2	LT 0.0003	LT 0.0004	0.0012	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/1/89	22257	FC3	LT 0.0003	LT 0.0004	0.0014	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/1/89	22258	FC4	LT 0.0003	LT 0.0004	0.0007	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/1/89	22259	FC5	LT 0.0003	LT 0.0004	0.0005	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/7/89	22241	FC1	LT 0.0003	LT 0.0004	0.0009	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/7/89	22242	FC2	LT 0.0003	LT 0.0004	0.0015	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/7/89	22243	FC20	LT 0.0003	LT 0.0004	0.0014	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/7/89	22244	FC3	LT 0.0003	LT 0.0004	0.0009	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/7/89	22245	FC4	LT 0.0003	LT 0.0004	0.0006	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/7/89	22246	FC5	LT 0.0003	LT 0.0004	0.0005	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/13/89	22248	FC1	LT 0.0003	LT 0.0004	0.0011	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/13/89	22249	FC2	0.0004	LT 0.0004	0.0044	0.0005	LT 0.0003	LT 0.0003	LT 0.0003
09/13/89	22250	FC3	LT 0.0003	LT 0.0004	0.0027	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/13/89	22272	FC4	LT 0.0003	LT 0.0004	0.0023	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/13/89	22274	FC5	LT 0.0003	LT 0.0004	0.0010	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/19/89	22271	FC1	LT 0.0003	LT 0.0004	0.0020	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/19/89	22273	FC2	0.0008	LT 0.0004	0.0055	LT 0.0003	LT 0.0003	LT 0.0003	0.0006
09/19/89	22275	FC20	0.0009	LT 0.0004	0.0057	LT 0.0003	LT 0.0003	LT 0.0003	0.0006
09/19/89	22277	FC3	LT 0.0003	LT 0.0004	0.0022	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/19/89	22278	FC4	LT 0.0003	LT 0.0004	0.0017	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/19/89	22279	FC5	0.0033	LT 0.0004	0.0019	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/25/89	22281	FC1	LT 0.0003	LT 0.0004	0.0012	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003

06/13/90

SUMMARY OF ORGANO CHLORINE PESTICIDE CONCENTRATIONS IRAF

ALL UNITS ARE IN UG/MS

FIELD			ALDRIN	CHLORDANE	DIELDRIN	ENDRIN	ISODRIN	PPDDE	PPDT
SAMPLE DATE	SAMPLE NUMBER	SITE ID	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
09/25/89	22282	FC2	LT 0.0003	LT 0.0004	0.0022	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/25/89	22283	FC3	LT 0.0003	LT 0.0004	0.0012	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003
09/25/89	22284	FC4	LT 0.0003	LT 0.0004	0.0012	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003

APPENDIX U
RIFS Data

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	CONC UG/M3	NET WEIGHT MG
12/20/88	RIFS1	14708	1298	81.83	106.25
12/21/88	RIFS1	14710	1379	61.02	84.15
12/27/88	RIFS1	14714	1436	88.38	126.95
12/28/88	RIFS1	14716	1384	70.95	98.2
12/29/88	RIFS1	14718	1396	97.99	136.75
12/30/88	RIFS1	14720	1404	93.96	131.9
01/03/89	RIFS1	14724	1438	128.38	184.6
01/04/89	RIFS1	14726	1377	64.14	88.3
01/05/89	RIFS1	14730	1271	35.45	45.05
01/06/89	RIFS1	14732	1475	32.11	47.35
01/08/89	RIFS1	14734	438	182.69	80.1
01/09/89	RIFS1	14736	1392	59.79	83.25
01/10/89	RIFS1	14737	1409	35.31	49.75
01/11/89	RIFS1	14739	1425	27.93	39.8
01/12/89	RIFS1	14740	1451	70.88	102.85
01/13/89	RIFS1	14742	1386	77.87	107.95
01/17/89	RIFS1	14748	1415	56.10	79.35
01/18/89	RIFS1	14752	1372	52.16	71.55
01/25/89	RIFS1	14758	1474	68.47	100.9
01/26/89	RIFS1	14760	1363	59.14	80.6
01/30/89	RIFS1	14766	1362	63.00	85.8
01/31/89	RIFS1	14768	1375	61.90	85.1
02/08/89	RIFS1	14780	1448	138.67	200.75
02/09/89	RIFS1	14784	1445	161.90	233.95
02/13/89	RIFS1	14786	1459	30.37	44.3
02/14/89	RIFS1	14788	1423	77.27	109.95
02/22/89	RIFS1	14797	1426	67.69	96.55
02/24/89	RIFS1	14953	1381	73.37	101.35
02/27/89	RIFS1	14955	1441	6.28	9.05
02/28/89	RIFS1	14957	1385	45.91	63.6
03/07/89	RIFS1	14964	1391	98.96	137.7
03/09/89	RIFS1	14969	1399	79.12	110.7
03/15/89	RIFS1	14973	1341	58.37	78.25
03/17/89	RIFS1	14978	1396	67.44	94.15
03/20/89	RIFS1	14980	1365	39.97	54.55
03/21/89	RIFS1	14981	1405	83.07	116.75
03/23/89	RIFS1	14984	1413	51.94	73.4
03/28/89	RIFS1	14986	1375	42.32	58.2
03/30/89	RIFS1	14987	1407	33.37	46.95
04/03/89	RIFS1	14989	1344	55.20	74.2
04/06/89	RIFS1	14990	1393	53.18	74.1
04/10/89	RIFS1	14992	1415	53.49	75.7
04/13/89	RIFS1	18351	1376	66.35	91.3
04/18/89	RIFS1	18353	1414	73.79	104.35
04/20/89	RIFS1	18354	1387	53.31	73.95
04/24/89	RIFS1	18356	1329	111.20	147.8
04/25/89	RIFS1	18358	1374	94.33	129.6
05/04/89	RIFS1	18359	1362	58.87	91.95

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	CONC UG/M3	NET WEIGHT MG
12/20/88	RIFS2	14709	1352	53.02	71.7
12/21/88	RIFS2	14711	1406	28.55	40.15
12/27/88	RIFS2	14715	1421	56.45	80.2
12/30/88	RIFS2	14722	1404	81.34	114.2
01/03/89	RIFS2	14725	1428	72.39	103.4
01/04/89	RIFS2	14729	1444	32.90	47.5
01/09/89	RIFS2	14735	1410	46.29	65.25
01/13/89	RIFS2	14743	1458	51.58	75.2
01/17/89	RIFS2	14751	1415	51.46	72.8
01/18/89	RIFS2	14753	1387	27.32	37.9
01/25/89	RIFS2	14759	1424	41.16	58.6
01/26/89	RIFS2	14763	1431	48.10	68.85
01/30/89	RIFS2	14767	1328	36.79	48.85
01/31/89	RIFS2	14771	1388	32.71	45.4
02/08/89	RIFS2	14782	1461	88.30	129.05
02/09/89	RIFS2	14785	1437	121.41	174.5
02/13/89	RIFS2	14787	1415	16.50	23.35
02/14/89	RIFS2	14790	1429	42.95	61.35
02/22/89	RIFS2	14799	1426	43.48	62
02/24/89	RIFS2	14954	1386	42.60	59.05
02/27/89	RIFS2	14956	1466	6.69	9.8
02/28/89	RIFS2	14959	1345	30.33	40.8
03/07/89	RIFS2	14965	1397	76.54	106.9
03/09/89	RIFS2	14970	1404	71.00	99.7
03/15/89	RIFS2	14975	1345	50.51	67.95
03/17/89	RIFS2	14979	1407	62.27	87.6

TOTAL SUSPENDED PARTICULATES (TSP) DATA
(IN UG/M3)

DATE	SITE	TAG NO.	VOLUME M3	CONC UG/M3	NET WEIGHT MG
12/15/88	RIFS1D	14702	1488	69.29	103.1
12/21/88	RIFS1D	14712	1378	61.14	84.25
12/30/88	RIFS1D	14721	1406	94.93	133.45
01/04/89	RIFS1D	14727	1377	64.73	89.15
01/13/89	RIFS1D	14744	1388	77.30	107.25
01/17/89	RIFS1D	14749	1428	58.04	82.9
01/26/89	RIFS1D	14761	1366	60.84	83.1
01/31/89	RIFS1D	14769	1376	64.56	88.8
02/08/89	RIFS1D	14781	1469	142.53	209.4
02/14/89	RIFS1D	14789	1422	81.41	115.75
02/28/89	RIFS1D	14958	1386	48.25	66.9
03/15/89	RIFS1D	14974	1341	59.34	79.55
03/30/89	RIFS1D	14988	1402	34.23	48
04/13/89	RIFS1D	18352	1377	68.22	93.95
04/24/89	RIFS1D	18357	1330	109.19	145.25

SUMMARY OF ARSENIC AND METALS

RIFS

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
12/16/88	14702	RIFS10	0.0012	0.0044	LT 0.0051	0.0210	0.0580	0.0580
12/21/88	14708	RIFS1	0.0010	0.0014	LT 0.0051	0.0930	0.0550	0.0770
12/21/88	14709	RIFS2	0.0010	LT 0.0004	LT 0.0051	0.0990	0.0350	0.0450
12/22/88	14710	RIFS1 LT	0.0004	LT 0.0004	LT 0.0051	0.0680	0.0250	0.0520
12/22/88	14711	RIFS2 LT	0.0004	LT 0.0004	LT 0.0051	0.0410	0.0150	0.0310
12/22/88	14712	RIFS10 LT	0.0004	LT 0.0004	LT 0.0051	0.0580	0.0240	0.0450
12/28/88	14714	RIFS1	0.0010	0.0018	LT 0.0051	0.0770	0.0430	0.0500
12/28/88	14715	RIFS2	0.0002	0.0006	LT 0.0051	0.0670	0.0270	0.0280
12/29/88	14716	RIFS1	0.0009	0.0027	LT 0.0051	0.0570	0.0490	0.0520
12/30/88	14718	RIFS1	0.0008	0.0052	LT 0.0051	0.1200	0.0590	0.0690
12/31/88	14720	RIFS1	0.0011	0.0016	LT 0.0051	0.1200	0.0560	0.0570
12/31/88	14721	RIFS10	10.000	0.0018	LT 0.0051	0.1400	0.0590	0.0590
12/31/88	14722	RIFS2	0.0013	0.0009	LT 0.0051	0.0950	0.0370	0.0400
01/4/89	14724	RIFS1	0.0009	0.0019	LT 0.0051	0.1100	0.0770	0.1000
01/4/89	14725	RIFS2	0.0001	0.0012	LT 0.0051	0.0830	0.0360	0.0580
01/5/89	14726	RIFS1	0.0006	0.0011	LT 0.0051	0.0700	0.0360	0.0530
01/5/89	14727	RIFS10	0.0005	0.0013	LT 0.0051	0.0610	0.0390	0.0530
01/5/89	14729	RIFS2	0.0007	0.0007	LT 0.0051	0.0540	0.0230	0.0370
01/6/89	14730	RIFS1	0.0005	0.0029	LT 0.0051	0.0866	0.0478	0.0389
01/7/89	14732	RIFS1 LT	0.0004	LT 0.0004	LT 0.0051	0.0109	0.0126	0.0217
01/9/89	14734	RIFS1	0.0014	LT 0.0004	LT 0.0051	LT 0.0027	0.0291	0.0689
01/10/89	14735	RIFS2 LT	0.0004	LT 0.0004	LT 0.0051	0.0929	0.0077	0.0215
01/10/89	14736	RIFS1	0.0005	0.0010	LT 0.0051	0.0505	0.0185	0.0437
01/11/89	14737	RIFS1 LT	0.0004	LT 0.0004	LT 0.0051	0.0428	0.0128	0.0273
01/12/89	14739	RIFS1	0.0006	0.0011	LT 0.0051	0.0700	0.0214	0.0304
01/13/89	14740	RIFS1	0.0004	0.0017	LT 0.0051	0.0834	0.0488	0.0567
01/14/89	14742	RIFS1	0.0006	0.0013	LT 0.0051	0.1080	0.0455	0.0794
01/14/89	14743	RIFS2	0.0005	0.0009	LT 0.0051	0.1040	0.0311	0.0337
01/18/89	14748	RIFS1	0.0007	0.0014	LT 0.0051	0.1070	0.0318	0.0485
01/18/89	14749	RIFS10	0.0006	0.0016	LT 0.0051	0.1020	0.0335	0.0494
01/18/89	14751	RIFS2	0.0007	0.0006	LT 0.0051	0.0735	0.0201	0.0415
01/19/89	14752	RIFS1 LT	0.0004	LT 0.0004	LT 0.0051	0.0480	0.0150	0.0319
01/19/89	14753	RIFS2 LT	0.0004	LT 0.0004	LT 0.0051	0.0535	0.0073	0.0143
01/26/89	14758	RIFS1	0.0009	0.0009	LT 0.0051	0.1490	0.0425	0.0642
01/26/89	14759	RIFS2	0.0006	LT 0.0004	LT 0.0051	0.1680	0.0217	0.0374
01/27/89	14760	RIFS1	0.0005	LT 0.0004	LT 0.0051	0.1310	0.0460	0.0641
01/27/89	14761	RIFS10	0.0005	LT 0.0004	LT 0.0051	0.1570	0.0466	0.0649
01/27/89	14763	RIFS2	0.0005	LT 0.0004	LT 0.0051	0.1080	0.0267	0.0423
01/31/89	14766	RIFS1 LT	0.0004	0.0012	LT 0.0051	0.1150	0.0476	0.0650
01/31/89	14767	RIFS2 LT	0.0004	LT 0.0004	LT 0.0051	0.0986	0.0233	0.0322
02/1/89	14768	RIFS1	0.0008	LT 0.0004	LT 0.0051	0.0305	0.0156	0.0270
02/1/89	14769	RIFS10	0.0008	LT 0.0004	LT 0.0051	0.0226	0.0153	0.0273
02/1/89	14771	RIFS2	0.0006	LT 0.0004	LT 0.0051	0.0239	LT 0.0050	0.0143
02/9/89	14780	RIFS1	0.0015	0.0067	LT 0.0051	0.0671	0.0656	0.0657
02/9/89	14781	RIFS10	0.0015	0.0065	LT 0.0051	0.0749	0.0674	0.0655
02/9/89	14782	RIFS2	0.0013	0.0032	LT 0.0051	0.0732	0.0422	0.0383
02/10/89	14784	RIFS1	0.0016	0.0057	LT 0.0051	0.0734	0.1080	0.1110
02/10/89	14785	RIFS2	0.0013	0.0026	LT 0.0051	0.0918	0.0779	0.0676
02/14/89	14786	RIFS1	0.0006	LT 0.0004	LT 0.0051	0.0324	0.0070	0.0141
02/14/89	14787	RIFS2	0.0005	LT 0.0004	LT 0.0051	0.0243	LT 0.0050	0.0080
02/15/89	14788	RIFS1	0.0038	LT 0.0004	LT 0.0051	0.0564	0.0186	0.0327

SUMMARY OF ARSENIC AND METALS

RIFS

ALL UNITS ARE IN UG/M2

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ARSENIC RESULTS	CADMIUM RESULTS	CHROMIUM RESULTS	COPPER RESULTS	LEAD RESULTS	ZINC RESULTS
02/15/89	14789	RIFS1D	0.0039	LT 0.0004	LT 0.0051	0.0690	0.0224	0.0362
02/15/89	14790	RIFS2	0.0034	LT 0.0004	LT 0.0051	0.0543	0.0104	0.0162
02/23/89	14797	RIFS1	0.0012	0.0012	0.0141	0.0468	0.0414	0.0606
02/23/89	14799	RIFS2	0.0008	0.0005	LT 0.0051	0.0715	0.0244	0.0418
02/25/89	14953	RIFS1	0.0008	0.0011	LT 0.0051	0.0540	0.0459	0.0854
02/25/89	14954	RIFS2	0.0006	0.0007	LT 0.0051	0.1310	0.0275	0.0467
03/8/89	14964	RIFS1	0.0010	0.0025	LT 0.0051	0.1180	0.0553	0.0791
03/8/89	14965	RIFS2	0.0008	0.0021	LT 0.0051	0.1260	0.0385	0.0501
03/10/89	14969	RIFS1	0.0025	0.0020	LT 0.0051	0.1010	0.0440	0.0635
03/10/89	14970	RIFS2	0.0023	0.0013	LT 0.0051	0.0976	0.0260	0.0457
03/16/89	14973	RIFS1	0.0007	0.0040	LT 0.0051	0.1180	0.0230	0.0442
03/16/89	14974	RIFS1D	0.0006	0.0042	LT 0.0051	0.1360	0.0242	0.0469
03/16/89	14975	RIFS2 LT	0.0004	LT 0.0004	LT 0.0051	0.0535	0.0083	0.0210
03/18/89	14978	RIFS1	0.0005	LT 0.0004	LT 0.0051	0.1200	0.0076	0.0192
03/18/89	14979	RIFS2	0.0007	LT 0.0004	LT 0.0051	0.0598	0.0062	0.0126
03/21/89	14980	RIFS1	0.0007	LT 0.0004	LT 0.0051	0.1330	0.0152	0.0303
03/22/89	14981	RIFS1	0.0005	LT 0.0004	LT 0.0051	0.0904	0.0147	0.0317
03/24/89	14984	RIFS1	0.0005	0.0009	LT 0.0051	0.0670	0.0046	0.0290
03/29/89	14986	RIFS1 LT	0.0004	LT 0.0004	LT 0.0051	0.1250	0.0139	0.0212
03/31/89	14987	RIFS1 LT	0.0004	LT 0.0004	LT 0.0051	0.1110	0.0161	0.0301
03/31/89	14988	RIFS1D LT	0.0004	LT 0.0004	LT 0.0051	0.1300	0.0165	0.0309
04/6/89	14989	RIFS1 LT	0.0004	LT 0.0004	LT 0.0051	0.0237	0.0157	0.0294
04/7/89	14990	RIFS1 LT	0.0004	0.0009	LT 0.0051	0.0551	0.0204	0.0323
04/11/89	14992	RIFS1	0.0005	LT 0.0004	LT 0.0051	0.0919	0.0241	0.0346
04/14/89	18351	RIFS1	0.0006	LT 0.0004	LT 0.0051	0.0894	0.0368	0.0454
04/14/89	18352	RIFS1D	0.0006	LT 0.0004	LT 0.0051	0.1180	0.0381	0.3330
04/25/89	18356	RIFS1	0.0007	LT 0.0004	LT 0.0051	0.1020	0.0076	0.0294
04/25/89	18357	RIFS1D	0.0007	LT 0.0004	LT 0.0051	0.0448	0.0134	0.0310
04/26/89	18358	RIFS1	0.0008	LT 0.0004	LT 0.0051	0.1220	0.0167	0.0342
05/5/89	18359	RIFS1	0.0005	LT 0.0004	LT 0.0051	67 0.3070	0.0147	0.0362

SUMMARY OF MERCURY FOR RIFS

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	MERCURY RESULTS
12/16/88	5841	RIFS1C	LT 0.6200
12/21/88	5848	RIFS1	LT 0.6200
12/21/88	5852	RIFS2	LT 0.6200
12/22/88	5859	RIFS1	LT 0.6200
12/22/88	5863	RIFS1D	LT 0.6200
12/22/88	5871	RIFS2	LT 0.6200
12/28/88	5881	RIFS2	LT 0.6200
12/28/88	5885	RIFS1	LT 0.6200
12/29/88	5904	RIFS1	LT 0.6200
12/30/88	5908	RIFS1	LT 0.6200
12/31/88	5888	RIFS1	LT 0.6200
12/31/88	5892	RIFS1D	LT 0.6200
12/31/88	5896	RIFS2	LT 0.6200
01/26/89	16662	RIFS1	LT 0.6180
01/26/89	16666	RIFS2	LT 0.6180
01/27/89	16670	RIFS1	LT 0.6180
01/27/89	16674	RIFS1D	LT 0.6180
01/27/89	16678	RIFS2	LT 0.6180
01/31/89	16686	RIFS1	LT 0.6180
01/31/89	16690	RIFS2	LT 0.6180
02/1/89	16694	RIFS1	LT 0.6180
02/1/89	16698	RIFS1D	LT 0.6180
02/1/89	16702	RIFS2	LT 0.6180
02/9/89	16718	RIFS1	LT 0.6180
02/9/89	16722	RIFS1D	LT 0.6180
02/9/89	16726	RIFS2	LT 0.6180
02/10/89	16734	RIFS1	LT 0.6180
02/10/89	16738	RIFS2	LT 0.6180
02/14/89	16742	RIFS1	LT 0.6180
02/14/89	16746	RIFS2	LT 0.6180
02/15/89	16750	RIFS1	LT 0.6180
02/15/89	16754	RIFS1D	LT 0.6180
02/15/89	16758	RIFS2	LT 0.6180
02/23/89	20002	RIFS1	LT 0.6180
02/23/89	20002	RIFS1	LT 0.6200
02/23/89	20006	RIFS2	LT 0.6180
02/23/89	20006	RIFS2	LT 0.6200
02/25/89	20014	RIFS1	LT 0.6180
02/25/89	20014	RIFS1	LT 0.6200
02/25/89	20018	RIFS2	LT 0.6180
02/25/89	20018	RIFS2	LT 0.6200
02/28/89	20022	RIFS1	LT 0.6180
02/28/89	20022	RIFS1	LT 0.6200
02/28/89	20026	RIFS2	LT 0.6180
02/28/89	20026	RIFS2	LT 0.6200
03/1/89	20030	RIFS1	LT 0.6180
03/1/89	20030	RIFS1	LT 0.6200
03/1/89	20034	RIFS1D	LT 0.6180
03/1/89	20034	RIFS1D	LT 0.6200
03/8/89	20048	RIFS1	LT 0.6180
03/8/89	20048	RIFS1	LT 0.6200

SUMMARY OF MERCURY FOR RIFS

ALL UNITS ARE IN UG/M3

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	MERCURY RESULTS
03/8/89	20052	RIFS2	LT 0.6180
03/8/89	20052	RIFS2	LT 0.6200
03/10/89	20060	RIFS1	LT 0.6180
03/10/89	20060	RIFS1	LT 0.6200
03/10/89	20064	RIFS2	LT 0.6180
03/10/89	20064	RIFS2	LT 0.6200
03/16/89	20068	RIFS1	LT 0.6180
03/16/89	20068	RIFS1	LT 0.6200
03/16/89	20072	RIFS10	LT 0.6180
03/16/89	20072	RIFS10	LT 0.6200
03/16/89	20076	RIFS2	LT 0.6180
03/16/89	20076	RIFS2	LT 0.6200
03/18/89	20080	RIFS1	LT 0.6180
03/18/89	20080	RIFS1	LT 0.6200
03/18/89	20084	RIFS2	LT 0.6180
03/18/89	20084	RIFS2	LT 0.6200
03/21/89	20088	RIFS1	LT 0.6180
03/22/89	20092	RIFS1	LT 0.6180
03/24/89	20100	RIFS1	LT 0.6180
03/29/89	20104	RIFS1	LT 0.6180
03/31/89	20108	RIFS1	LT 0.6180
03/31/89	20112	RIFS10	LT 0.6180
04/6/89	20116	RIFS1	LT 0.6180
04/7/89	20118	RIFS1	LT 0.6180
04/11/89	20124	RIFS1	LT 0.6180
04/14/89	20127	RIFS1	LT 0.6180
04/14/89	20130	RIFS10	LT 0.6180
04/19/89	20133	RIFS1	LT 0.6180
04/21/89	20136	RIFS1	LT 0.6180
04/25/89	20142	RIFS1	LT 0.6180
04/25/89	20145	RIFS10	LT 0.6180
04/26/89	20148	RIFS1	LT 0.6180
05/5/89	20151	RIFS1	LT 0.6180

ALL UNITS ARE IN UG/KG

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE OEL

Page 8

Sample Date	Field Sample Number	Site Id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Diethylbenzene	Benzene	Bicyclohexadiene	Carbon Tetrachloride	Methylene Chloride	Chloroform	Chlorobenzene
10/22/88	05801T	05801TC RIFS1	0.7450 b	LT 0.0300	LT 0.0240	LT 0.0210	2.8400	LT 0.0420	1.8200	0.2080	5.2200	0.1400	LT 0.0330
10/29/88	05803T	05803TC RIFS1	2.1900 a	LT 0.0295	LT 0.0243	0.1340	6T 0.3470	0.4930	6T 0.3470	0.4330	5.2500	0.5280	0.0738
11/1/88	05802T	05802TC RIFS1	0.9720 a	LT 0.0295	LT 0.0243	LT 0.0208	2.7500	LT 0.0417	2.1200	0.2780	13.700	1.1500	0.1230
11/2/88	05804T	05804TC RIFS1	2.1300 a	LT 0.0295	LT 0.0243	LT 0.0208	4.5600	LT 0.0417	3.5600	0.3850	3.8100	0.0959	LT 0.0330
11/10/88	05805T	05805TC RIFS1	1.5300 a	LT 0.0295	LT 0.0243	0.1490	1.6600	LT 0.0417	4.6300	0.7440	1.3200	0.1420	LT 0.0330
11/17/88	05808	05809 RIFS1	2.7200 a	LT 0.0295	LT 0.0243	0.2480	2.8000	LT 0.0417	5.3900	0.8730	5.3100	0.1330	LT 0.0330
11/19/88	05812	05813 RIFS1	0.9360 a	LT 0.0295	LT 0.0243	0.0787	0.5700	LT 0.0417	1.8300	0.5720	0.6040	0.3910	LT 0.0330
11/22/88	05814	05815 RIFS1	0.9540 a	LT 0.0295	LT 0.0243	LT 0.0208	1.9400	LT 0.0417	2.9000	0.3190	1.7100	LT 0.0208	LT 0.0330
11/23/88	05816	05817 RIFS1	6T 0.3470	LT 0.0295	LT 0.0243	LT 0.0208	2.3700	LT 0.0417	2.7200	0.2420	2.5100	LT 0.0208	LT 0.0330
12/1/88	05820	05821 RIFS1	0.8590 a	LT 0.0295	LT 0.0243	LT 0.0208	2.1400	LT 0.0417	2.4500	0.2100	2.7600	LT 0.0208	LT 0.0330
12/2/88	05824	05825 RIFS1	1.2100 a	LT 0.0295	LT 0.0243	LT 0.0208	1.5200	LT 0.0417	2.5300	0.2610	2.0800	LT 0.0208	LT 0.0330
12/6/88	05826	05827 RIFS1	4.7800 a	LT 0.0295	LT 0.0243	LT 0.0208	4.4400	0.4160	8.5100	0.6160	4.9200	1.3300	LT 0.0330
12/10/88	05828	05829 RIFS1	4.4300 a	LT 0.0295	LT 0.0243	LT 0.0208	2.3300	LT 0.0417	9.5900	0.9460	5.2800	0.4710	LT 0.0330
12/13/88	05832	05833 RIFS1	1.7100 a	LT 0.0295	LT 0.0243	0.0390	1.1500	LT 0.0417	3.2400	0.4590	1.2200	0.0710	LT 0.0330
12/16/88	05839	05840 RIFS1C	5.3800 a	LT 0.0295	LT 0.0243	LT 0.0208	2.8500	LT 0.0417	9.4800	1.3100	3.7700	0.4580	LT 0.0330
12/21/88	05844	05847 RIFS1	4.2400 a	LT 0.0295	LT 0.0243	LT 0.0208	2.4000	LT 0.0417	6.5300	0.8070	7.4200	0.3970	LT 0.0330
12/21/88	05850	05851 RIFS2	3.7400 a	LT 0.0295	LT 0.0243	LT 0.0208	1.1900	0.0743	4.6800	1.3700	6.8800	0.4220	LT 0.0330

a - t/c weight 1.25% weight

b - Detected on t/c only

6T - Value Is Above OEL; No Estimate Available

ALL UNITS ARE IN UG/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 9

Sample Date	Field Sample Number	Site id	Dibromochloropropane	Dicyclopentadiene	Diethylsulfide	Ethylbenzene	Toluene	Methylisobutyl Ketone	N-Hydroxydiethylamine	Trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Note - 4 Para-Xylene
10/22/88	05801T	05801TC RIFS1	LT 0.0380	LT 0.0450	LT 0.0470	1.6300	5.7400	0.2140	LT 0.1000	LT 0.0400	1.1900	LT 0.0520	6.3800
10/29/88	05803T	05803TC RIFS1	0.4040	3.7700	0.1130	2.9800	16.500	LT 0.0174	LT 0.1020	LT 0.0399	1.6500	0.1590	67 0.6940
11/1/88	05802T	05802TC RIFS1	0.3690	LT 0.0451	LT 0.0469	1.7200	9.4900	0.1870	LT 0.1020	LT 0.0399	1.9200	0.2560	67 0.6940
11/2/88	05804T	05804TC RIFS1	LT 0.0382	0.2920	LT 0.0469	2.4700	14.800	0.5140	LT 0.1020	LT 0.0399	1.3400	0.1930	67 0.6940
11/10/88	05806T	05806TC RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.0800	5.4100	LT 0.0174	LT 0.1020	LT 0.0399	0.5740	0.0710	1.9300
11/17/88	05808	05809 RIFS1	LT 0.0382	0.2760	LT 0.0469	1.8200	7.6900	LT 0.0174	LT 0.1020	LT 0.0399	1.1200	0.1420	3.2200
11/19/88	05812	05813 RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.4360	2.7500	LT 0.0174	LT 0.1020	LT 0.0399	0.5030	LT 0.0521	1.5800
11/22/88	05814	05815 RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.3900	4.5000	LT 0.0174	LT 0.1020	LT 0.0399	1.3800	0.0869	2.4200
11/23/88	05816	05817 RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.4900	5.4200	LT 0.0174	LT 0.1020	LT 0.0399	2.2700	0.0803	2.7100
12/1/88	05820	05821 RIFS1	LT 0.0382	LT 0.0451	0.0538	1.6200	6.2100	LT 0.0174	LT 0.1020	LT 0.0399	2.0000	0.0710	2.5500
12/2/88	05824	05825 RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.9000	4.5000	LT 0.0174	LT 0.1020	LT 0.0399	1.8700	0.0948	1.9700
12/6/88	05826	05827 RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	3.0000	11.900	0.2590	LT 0.1020	LT 0.0399	2.8000	0.2100	3.3800
12/10/88	05828	05829 RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.8200	9.1200	LT 0.0174	LT 0.1020	LT 0.0399	1.5200	0.1220	3.3100
12/13/88	05832	05833 RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.9040	4.5300	LT 0.0174	LT 0.1020	LT 0.0399	1.3200	LT 0.0521	1.5000
12/16/88	05839	05840 RIFS1C	LT 0.0382	LT 0.0451	LT 0.0469	2.3000	7.5400	LT 0.0174	LT 0.1020	LT 0.0399	1.0500	0.1260	3.6100
12/21/88	05846	05847 RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.8500	7.3800	LT 0.0174	LT 0.1020	LT 0.0399	1.8500	0.4260	2.7300
12/21/88	05850	05851 RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.8630	4.3200	LT 0.0174	LT 0.1020	LT 0.0399	0.7910	0.1350	1.6500

a - t/c weight 1.25% weight

b - Detected on t/c only

GT - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN UG/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE OEL

Page 10

Sample Date	Field Number	Site Id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichlorobenzene	Carbon Tetrachloride	Methylene Chloride	Chlorobenzene				
12/22/88	05860	05861	RIFS1	1.0900	LT 0.0300	LT 0.0240	0.1100	0.8160	LT 0.0420	2.5600	0.7180	0.8340	0.1530	LT 0.0330
12/22/88	05864	05865	RIFS1D	1.1400	LT 0.0300	LT 0.0240	LT 0.0210	0.8390	LT 0.0420	2.6500	0.7490	0.8200	10.000	LT 0.0330
12/22/88	05872	05873	RIFS2	0.9730	LT 0.0300	LT 0.0240	0.0920	0.4810	LT 0.0420	1.9600	0.6350	1.1000	10.000	LT 0.0330
12/28/88	05883	05884	RIFS1	3.1400	LT 0.0295	LT 0.0243	LT 0.0208	2.6000	LT 0.0417	8.1100	1.0700	3.6600	0.4000	LT 0.0330
12/28/88	05879	05880	RIFS2	2.0100	LT 0.0295	LT 0.0243	LT 0.0208	1.5600	LT 0.0417	5.5900	0.8560	2.7900	0.2170	LT 0.0330
12/29/88	05905	05906	RIFS1	3.6100	LT 0.0295	LT 0.0243	0.2340	4.5400	LT 0.0417	8.5600	0.8960	4.0800	0.3870	LT 0.0330
12/30/88	05909	05910	RIFS1	3.4600	LT 0.0295	LT 0.0243	0.3850	4.5900	LT 0.0417	9.7900	0.7660	6.6800	1.0600	LT 0.0330
12/31/88	05889	05890	RIFS1	4.9000	LT 0.0295	LT 0.0243	LT 0.0208	3.4200	LT 0.0417	11.800	0.9240	9.9000	0.6940	0.0348
12/31/88	05893	05894	RIFS1D	4.5800	LT 0.0300	LT 0.0240	LT 0.0210	4.6900	LT 0.0420	14.200	0.8420	8.1600	0.5500	LT 0.0330
12/31/88	05897	05898	RIFS2	3.7000	LT 0.0300	LT 0.0240	LT 0.0210	3.4600	LT 0.0420	8.5000	1.0200	5.0200	0.3400	LT 0.0330
01/4/89	17500	17481	RIFS1	2.9500	LT 0.0295	LT 0.0243	LT 0.0208	3.6400	LT 0.0417	8.7500	0.8590	11.300	0.2500	LT 0.0330
01/4/89	17484	17485	RIFS2	3.9000	LT 0.0300	LT 0.0240	LT 0.0210	2.5200	LT 0.0420	5.9800	0.8760	17.000	0.2580	LT 0.0330
01/5/89	17488	17489	RIFS1	2.4400	LT 0.0300	LT 0.0240	LT 0.0210	2.4700	LT 0.0420	5.1200	0.7190	32.500	0.1950	0.3200
01/5/89	17672	17673	RIFS1D	2.4000	LT 0.0300	LT 0.0240	LT 0.0210	2.3600	LT 0.0420	5.3500	0.5700	22.900	0.1840	0.0560
01/5/89	17480	17461	RIFS2	1.7200	LT 0.0295	LT 0.0243	LT 0.0208	1.2300	LT 0.0417	3.2200	0.6470	14.400	0.1250	LT 0.0330
01/6/89	17443	17444	RIFS1	1.9200	LT 0.0295	LT 0.0243	LT 0.0208	1.8800	LT 0.0417	5.6900	0.5660	1.1800	0.0841	LT 0.0330
01/7/89	17447	17448	RIFS1	0.9190	LT 0.0295	LT 0.0243	0.1160	0.2990	LT 0.0417	1.4900	0.8670	0.6510	0.1030	LT 0.0330

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above OEL; No Estimate Available

ALL UNITS ARE IN (G/GS)

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE OEL

Page 11

Sample Date	Field Sample Number	Site Id	Dibromochloropropane	Dicyclopentadiene	Diethylsulfide	Ethylbenzene	Toluene	Methylisobutyl Ketone	N-Nitrosodimethylamine	Trans-1,2-dichloroethene	Tetrachloroethene	Trichloroethene	Heptachloroethene	Para-Xylene
12/22/88	05860	05861	RIFS1	LT 0.0380	LT 0.0450	LT 0.0470	0.5780	3.1600	LT 0.0170	LT 0.1020	LT 0.0400	0.4080	LT 0.0520	1.0500
12/22/88	05864	05865	RIFS10	LT 0.0380	LT 0.0450	LT 0.0470	0.5940	3.2900	LT 0.0170	LT 0.1000	LT 0.0400	0.4200	LT 0.0520	1.0500
12/22/88	05872	05873	RIFS2	LT 0.0380	LT 0.0450	LT 0.0470	0.3780	2.1000	LT 0.0170	LT 0.1000	LT 0.0400	0.4400	LT 0.0520	0.6530
12/28/88	05883	05884	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	2.1700	7.6700	LT 0.0174	LT 0.1020	LT 0.0399	1.4300	0.1530	2.9000
12/28/88	05879	05880	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	1.3300	5.4400	LT 0.0174	LT 0.1020	LT 0.0399	0.8500	0.0948	1.8700
12/29/88	05905	05906	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	3.3600	11.400	LT 0.0174	LT 0.1020	LT 0.0399	3.2500	0.1940	9.0000
12/30/88	05909	05910	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	3.4300	12.600	LT 0.0174	LT 0.1020	LT 0.0399	3.1800	0.1660	9.4400
12/31/88	05889	05890	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	4.7900	15.400	LT 0.0174	LT 0.1020	LT 0.0399	3.1800	0.3080	12.300
12/31/88	05893	05894	RIFS10	LT 0.0380	LT 0.0450	LT 0.0470	3.6100	13.000	LT 0.0170	LT 0.1000	LT 0.0400	3.3200	0.2600	10.100
12/31/88	05897	05898	RIFS2	LT 0.0380	LT 0.0450	LT 0.0470	2.8400	10.700	LT 0.0170	LT 0.1000	LT 0.0400	2.4900	0.1900	7.9600
01/4/89	17500	17481	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	2.6200	9.9300	LT 0.0174	LT 0.1020	LT 0.0399	3.1800	0.1340	7.9500
01/4/89	17484	17485	RIFS2	LT 0.0380	LT 0.0450	LT 0.0470	1.9500	7.8000	LT 0.0170	LT 0.1000	LT 0.0400	1.7000	0.0980	6.0300
01/5/89	17488	17489	RIFS1	LT 0.0380	LT 0.0450	LT 0.0470	1.7700	7.7700	LT 0.0170	LT 0.1000	LT 0.0400	1.7000	0.1300	5.6500
01/5/89	17472	17473	RIFS10	LT 0.0380	LT 0.0450	LT 0.0470	1.7000	6.9400	LT 0.0170	LT 0.1000	LT 0.0400	1.5600	0.0910	5.5600
01/5/89	17480	17481	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.9590	4.7900	LT 0.0174	LT 0.1020	LT 0.0399	1.1300	0.0631	3.3900
01/6/89	17443	17444	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.4800	7.3800	LT 0.0174	LT 0.1020	LT 0.0399	1.3300	0.0978	5.1700
01/7/89	17447	17448	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.1340	0.8600	LT 0.0174	LT 0.1020	LT 0.0399	0.1470	0.0406	0.4460

a - t/c weight 1.25% weight

b - Detected on t/c only

GT - Value Is Above OEL; No Estimate Available

ALL UNITS ARE IN US/PS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE OEL

Page 12

Sample Date	Field Sample Number	Site id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Diethylbenzene	Bicyclooctadiene	Carbon Tetrachloride	Methylene Chloride	Chlorobenzene			
01/09/89	17451	17452	RIFS1	1.2900 a	LT 0.0295	LT 0.0243	LT 0.0208	0.4500	LT 0.0417	1.6600 a	0.6770 a	1.5400 a	0.0917	LT 0.0330
01/10/89	17455	17456	RIFS1	1.9800 a	LT 0.0295	LT 0.0243	LT 0.0208	1.3500	LT 0.0417	4.5400 a	0.6340 a	1.5100 a	0.1730	0.03%
01/10/89	17459	17460	RIFS2	1.2700 a	LT 0.0295	LT 0.0243	0.0334 b	0.6340	LT 0.0417	2.8500	0.5950 a	0.6540 a	0.1140	0.0971
01/11/89	17464	17465	RIFS1	1.3500 a	LT 0.0295	LT 0.0243	LT 0.0208	1.1700	LT 0.0417	5.0800	0.7690 a	1.1400 a	0.4190	LT 0.0330
01/12/89	17468	17469	RIFS1	2.5600	LT 0.0295	LT 0.0243	LT 0.0208	3.0500	LT 0.0417	9.1200	0.8770	1.8100	0.3090	0.0331
01/13/89	16603	16604	RIFS1	4.1300 a	LT 0.0300	LT 0.0240	LT 0.0210	2.6900	LT 0.0420	8.5100	1.2400 a	1.9000 a	0.4350	LT 0.0330
01/14/89	16607	16608	RIFS1	3.4900 a	LT 0.0300	LT 0.0240	0.0460 b	3.1100	LT 0.0420	10.300	1.2600 a	2.0300 a	0.2700 a	0.0630
01/14/89	16611	16612	RIFS10	4.4100 a	LT 0.0300	LT 0.0240	LT 0.0210	3.4300	LT 0.0420	11.600	1.2700 a	2.0700 a	0.2900 a	0.0520
01/14/89	16615	16616	RIFS2	3.5700 a	LT 0.0300	LT 0.0240	LT 0.0210	2.8300	LT 0.0420	10.900	1.2500	1.1200	0.3420	0.0440
01/18/89	16631	16632	RIFS1	2.8300 a	LT 0.0295	LT 0.0243	LT 0.0208	1.6900	LT 0.0417	4.6600	1.0100 a	1.4200 a	0.2200 a	LT 0.0330
01/18/89	16635	16636	RIFS10	3.3700 a	LT 0.0295	LT 0.0243	LT 0.0208	2.0600	LT 0.0417	6.9500	1.1000 a	1.5600 a	0.2540 a	LT 0.0330
01/18/89	16639	16640	RIFS2	2.3400 a	LT 0.0295	LT 0.0243	LT 0.0208	1.4000	LT 0.0417	5.6300	1.0500	0.9460 a	0.1700 a	0.03%
01/19/89	16647	16648	RIFS1	1.8900 a	LT 0.0295	LT 0.0243	3.4100 a	0.9620	LT 0.0417	2.1300	8.5900 a	1.1400 a	0.3090 a	LT 0.0330
01/19/89	16651	16652	RIFS2	1.1500 a	LT 0.0295	LT 0.0243	3.8000 a	0.6270	LT 0.0417	1.9700	9.7600 a	1.0200 a	0.3370 a	LT 0.0330
01/26/89	16663	16664	RIFS1	2.0300 a	LT 0.0295	LT 0.0243	0.5390 a	1.4000	LT 0.0417	3.7900	2.5600 a	2.5900 a	0.2510	0.0403
01/27/89	16675	16676	RIFS10	3.9000 a	LT 0.0295	LT 0.0243	1.0900 a	2.9200	LT 0.0417	8.8900	4.4600 a	3.4800 a	0.4170 a	LT 0.0330
01/31/89	16687	16688	RIFS1	3.4400 a	LT 0.0295	LT 0.0243	0.0771	1.4400	LT 0.0417	GT 0.3470	0.6890 a	1.3500 a	0.0990 a	LT 0.0330

a - t/c weight > 25% weight

b - Detected on t/c only

GT - Value Is Above OEL; No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 13

Sample Date	Field Sample Number	Site Id	Dibromochloropentane	Dicyclopentadiene	Dimethyldisulfide	Ethylbenzene	Toluene	Methylisobutyl Ketone	N-Nitroso- dimethylamine	Trans-1, 2-Dichloroethene	Tetrachloroethene	Meta- & Para-Xylene		
01/09/89	17451	17452	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.3310	2.0000	LT 0.0174	LT 0.1020	LT 0.0399	0.3940	LT 0.0330	1.2200
01/10/89	17455	17456	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.1300	4.9600	LT 0.0174	LT 0.1020	LT 0.0399	0.9220	0.0696	3.5500
01/10/89	17459	17460	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.7040	2.7100	LT 0.0174	LT 0.1020	LT 0.0399	0.5630	LT 0.0521	1.6900
01/11/89	17464	17465	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.0400	6.0200	LT 0.0174	LT 0.1020	LT 0.0399	0.6350	0.0917	3.6800
01/12/89	17468	17469	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	2.4900	10.500	LT 0.0174	LT 0.1020	LT 0.0399	2.3200	0.1900	7.7200
01/13/89	16603	16604	RIFS1	LT 0.0380	LT 0.0450	LT 0.0470	2.5500	9.9800	LT 0.0170	LT 0.1000	LT 0.0400	3.0700	0.3200	6.9000
01/14/89	16607	16608	RIFS1	LT 0.0380	LT 0.0450	LT 0.0470	2.9700	11.900	LT 0.0170	LT 0.1000	LT 0.0400	2.5900	0.1700	8.0400
01/14/89	16611	16612	RIFS10	LT 0.0380	LT 0.0450	LT 0.0470	3.2200	12.400	LT 0.0170	LT 0.1000	LT 0.0400	2.7300	0.1600	8.3900
01/14/89	16615	16616	RIFS2	LT 0.0380	LT 0.0450	LT 0.0470	2.7000	11.100	LT 0.0170	LT 0.1000	LT 0.0400	2.3300	0.1300	7.3300
01/18/89	16631	16632	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.5500	6.4200	LT 0.0174	LT 0.1020	LT 0.0399	2.7700	0.1610	4.7300
01/18/89	16635	16636	RIFS10	LT 0.0382	LT 0.0451	LT 0.0469	1.8800	8.1600	LT 0.0174	LT 0.1020	LT 0.0399	3.4400	0.2010	5.6700
01/18/89	16639	16640	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	1.4600	6.3700	LT 0.0174	LT 0.1020	LT 0.0399	2.1700	0.1720	3.9000
01/19/89	16647	16648	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.6870	5.8800	LT 0.0174	LT 0.1020	LT 0.0399	0.5500	0.1540	2.3000
01/19/89	16651	16652	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.4880	4.6000	LT 0.0174	LT 0.1020	LT 0.0399	0.4900	0.0869	1.7100
01/26/89	16663	16664	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.0400	6.2600	LT 0.0174	LT 0.1020	LT 0.0399	1.1300	0.1950	3.6500
01/27/89	16675	16676	RIFS10	LT 0.0382	LT 0.0451	LT 0.0469	1.9900	13.900	LT 0.0174	LT 0.1020	LT 0.0399	2.8200	0.2040	7.8700
01/31/89	16687	16688	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.1800	5.3000	LT 0.0174	LT 0.1020	LT 0.0399	2.6200	0.1020	3.1500

a - t/c weight / 235 weight

b - Detected on t/c only

c - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE ORL

Page 14

Sample Date	Field Sample Number	Site Id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichlorobenzene	Carbon Tetrachloride	Bicycloheptadiene	Chloride	Chloroform	Methylene Chloride		
02/1/89	16699	16700	RIFS1D	0.6920	LT 0.0295	LT 0.0243	0.1660	0.3480	LT 0.0417	1.3500	1.2200	1.0100	0.1310	LT 0.0330
02/9/89	16719	16720	RIFS1	4.5000	LT 0.0295	LT 0.0243	6T 0.3470	5.1800	LT 0.0417	4.7500	6T 0.3470	2.8400	0.4650	0.0383
02/9/89	16723	16724	RIFS1D	4.8100	LT 0.0295	LT 0.0243	6T 0.3470	8.0300	LT 0.0417	5.4900	4.1500	4.7200	0.6510	0.0437
02/9/89	16727	16728	RIFS2	4.6500	LT 0.0295	LT 0.0243	LT 0.0208	6.9800	LT 0.0417	6.5500	2.3300	1.7500	0.4750	LT 0.0330
02/10/89	16735	16736	RIFS1	6.3800	LT 0.0295	LT 0.0243	0.1590	6.1500	LT 0.0417	8.8600	3.4900	6.1700	0.5700	LT 0.0330
02/15/89	16751	16752	RIFS1	0.2640	LT 0.0295	LT 0.0243	0.2230	0.5480	LT 0.0417	0.5140	0.6850	1.2700	LT 0.0208	LT 0.0330
02/15/89	16759	16760	RIFS2	0.7990	LT 0.0295	LT 0.0243	6T 0.3470	0.3690	LT 0.0417	1.5600	3.4800	0.8140	0.1740	LT 0.0330
02/23/89	20003	20004	RIFS1	1.9500	LT 0.0295	LT 0.0243	LT 0.0208	1.2300	LT 0.0417	2.1700	0.9180	1.1300	0.1030	LT 0.0330
02/23/89	20007	20008	RIFS2	1.4500	LT 0.0295	LT 0.0243	LT 0.0208	0.8620	LT 0.0417	2.2800	0.6900	0.1700	0.0997	LT 0.0330
02/25/89	20015	20016	RIFS1	1.0200	LT 0.0295	LT 0.0243	LT 0.0208	1.3300	LT 0.0417	2.6600	0.6510	0.5940	0.0644	LT 0.0330
02/25/89	20019	20020	RIFS2	0.7950	LT 0.0295	LT 0.0243	LT 0.0208	0.6450	LT 0.0417	1.7600	0.6680	LT 0.0278	0.0479	LT 0.0330
02/28/89	20023	20024	RIFS1	0.6440	LT 0.0295	LT 0.0243	0.0993	0.0333	LT 0.0417	1.2300	0.9300	0.0613	0.1130	LT 0.0330
02/28/89	20027	20028	RIFS2	0.6770	LT 0.0295	LT 0.0243	0.0829	LT 0.0278	LT 0.0417	0.9840	1.1200	0.0639	0.1100	LT 0.0330
03/1/89	20031	20032	RIFS1	1.4800	LT 0.0295	LT 0.0243	LT 0.0208	0.5840	LT 0.0417	1.9600	0.9880	0.5560	0.2340	LT 0.0330
03/1/89	20035	20036	RIFS1D	1.4300	LT 0.0295	LT 0.0243	LT 0.0208	0.5100	LT 0.0417	2.4400	0.7980	1.0200	0.2700	LT 0.0330
03/1/89	20039	20040	RIFS2	1.3700	LT 0.0295	LT 0.0243	LT 0.0208	0.4320	LT 0.0417	1.6800	1.0500	0.9850	0.2100	LT 0.0330
03/8/89	20049	20050	RIFS1	3.4600	LT 0.0295	LT 0.0243	0.2100	2.7600	LT 0.0417	6.7200	0.6440	2.3100	0.3000	LT 0.0330

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above ORL; No Estimate Available

Sample Date	Field Sample Number	Site id	Dibromochloropropane	Dicyclopentadiene	Diethylidithiolane	Ethylbenzene	Toluene	Methylisobutyl Ketone	N-Hitrosodimethylamine	Trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Para-Xylene	
02/1/89	16699	16700	RIFS10	LT 0.0382	LT 0.0451	LT 0.0469	0.2660	1.4600	LT 0.0174	LT 0.1020	LT 0.0399	0.2080	0.0619	0.8460
02/9/89	16719	16720	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	3.4300	23.900	LT 0.0174	LT 0.1020	LT 0.0399	2.4400	0.3360	9.7200
02/9/89	16723	16724	RIFS10	LT 0.0382	LT 0.0451	LT 0.0469	5.6900	30.800	LT 0.0174	LT 0.1020	LT 0.0399	3.0100	0.3210	14.400
02/9/89	16727	16728	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	5.3200	29.600	LT 0.0174	LT 0.1020	LT 0.0399	2.9900	0.3100	12.600
02/10/89	16735	16736	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	6.1600	10.700	LT 0.0174	LT 0.1020	LT 0.0399	3.4400	0.6100	8.6200
02/15/89	16751	16752	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.4450	5.1400	LT 0.0174	LT 0.1020	LT 0.0399	0.3520	LT 0.0330	1.5800
02/15/89	16759	16760	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.3320	4.1500	LT 0.0174	LT 0.1020	LT 0.0399	0.2790	LT 0.0330	1.0200
02/23/89	20003	20004	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.2300	5.4600	LT 0.0174	LT 0.1020	LT 0.0399	0.9560	0.1110	2.5600
02/23/89	20007	20008	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.7950	4.8300	LT 0.0174	LT 0.1020	LT 0.0399	0.6550	0.0631	2.2100
02/25/89	20015	20016	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.0500	6.3200	LT 0.0174	LT 0.1020	LT 0.0399	0.9120	LT 0.0330	2.8800
02/25/89	20019	20020	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.5360	3.2300	LT 0.0174	LT 0.1020	LT 0.0399	0.4300	LT 0.0330	1.8300
02/28/89	20023	20024	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.0353	0.3170	LT 0.0174	LT 0.1020	LT 0.0399	0.1850	LT 0.0330	LT 0.1610
02/28/89	20027	20028	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.0310	0.2750	LT 0.0174	LT 0.1020	LT 0.0399	0.1600	LT 0.0330	LT 0.1610
03/1/89	20031	20032	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.5150	3.4800	LT 0.0174	LT 0.1020	LT 0.0399	0.5150	LT 0.0330	1.7500
03/1/89	20035	20036	RIFS10	LT 0.0382	LT 0.0451	LT 0.0469	0.5100	3.6400	LT 0.0174	LT 0.1020	LT 0.0399	61 0.3470	LT 0.0330	1.5300
03/1/89	20039	20040	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.3960	3.1300	LT 0.0174	LT 0.1020	LT 0.0399	0.4610	LT 0.0330	1.3300
03/8/89	20049	20050	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	2.2800	21.000	LT 0.0174	LT 0.1020	LT 0.0399	3.8200	0.1570	4.6300

a - t/c weight 1.25t weight
b - Detected on t/c only
61 - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN US/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 16

Sample Date	Field Sample Number	Site Id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichlorobenzene	Carbon Tetrachloride	Methylene Chloride	Chloroform	Chlorobenzene		
03/08/89	20053	RIFS2	2.6400 a	LT 0.0295	LT 0.0243	LT 0.0208	2.1000	LT 0.0417	5.7300 a	0.6210 a	2.7700 a	0.1300 b	LT 0.0330
03/10/89	20061	RIFS1	1.4600 a	LT 0.0300	LT 0.0240	LT 0.0210	1.5700	LT 0.0420	61 0.3500	0.7210 a	3.6100 a	0.1910	LT 0.0330
03/10/89	20065	RIFS2	1.5700 a	LT 0.0295	LT 0.0243	LT 0.0208	1.1800	LT 0.0417	3.3700	1.0900	61 0.3470	0.2650	LT 0.0330
03/16/89	20069	RIFS1	1.4200 a	LT 0.0295	LT 0.0243	61 0.3470	1.2700	LT 0.0417	2.2100 a	2.8300	20.500 a	0.2220 a	LT 0.0330
03/16/89	20074	RIFS10	1.6600 a	LT 0.0295	LT 0.0243	0.1440 b	1.5100	LT 0.0417	2.8400 a	0.7520 a	2.7500 a	0.0800 b	LT 0.0330
03/16/89	20077	RIFS2	1.1200 a	LT 0.0295	LT 0.0243	0.3380	0.7940	LT 0.0417	1.5200 a	1.2400	4.9100 a	0.1300 a	LT 0.0330
03/18/89	20081	RIFS1	0.9210 a	LT 0.0295	LT 0.0243	0.2020	0.4610	LT 0.0417	2.4100	0.6870 a	0.7310 a	0.1750 a	LT 0.0330
03/18/89	20085	RIFS2	0.7390 a	LT 0.0295	LT 0.0243	0.1350	0.3440	LT 0.0417	1.6200	0.6510	0.3750 a	0.0934 a	LT 0.0330
03/21/89	20089	RIFS1	8.7500 a	LT 0.0295	LT 0.0243	LT 0.0208	1.1300	LT 0.0417	2.3500	0.6140 a	4.5800 a	0.1940 a	LT 0.0330
03/22/89	20093	RIFS1	61 0.3470	LT 0.0295	LT 0.0243	0.0459 b	61 0.3470	LT 0.0417	61 0.3470	0.5430 a	0.9610 a	0.1350 a	LT 0.0330
03/31/89	20109	RIFS1	0.7380 a	LT 0.0295	LT 0.0243	LT 0.0208	0.8240	LT 0.0417	1.8600 a	0.2620 a	0.3880 a	LT 0.0208	LT 0.0330
03/31/89	20113	RIFS10	0.8240 a	LT 0.0295	LT 0.0243	0.1030	0.7670	LT 0.0417	1.8800	0.3220 a	0.3850 a	LT 0.0208	LT 0.0330
04/6/89	20116	RIFS1	0.6040 a	LT 0.0295	LT 0.0243	LT 0.0208	0.3960 b	LT 0.0417	0.7010 a	0.2990 a	0.5910 a	LT 0.0208	LT 0.0330
04/7/89	20119	RIFS1	0.5120 a	LT 0.0295	LT 0.0243	LT 0.0208	61 0.3470	LT 0.0417	0.7720 a	0.2000 a	0.8250 a	LT 0.0208	LT 0.0330
04/11/89	20125	RIFS1	0.9150 a	LT 0.0295	LT 0.0243	LT 0.0208	0.0989	LT 0.0417	2.1600	0.4290 a	0.7200 a	0.1540 a	LT 0.0330
04/14/89	20128	RIFS1	1.1200 a	LT 0.0295	LT 0.0243	LT 0.0208	1.2900	LT 0.0417	2.8600	0.2380	1.0500 a	0.0644 a	LT 0.0330
04/14/89	20131	RIFS10	1.2200 a	LT 0.0295	LT 0.0243	LT 0.0208	1.4400	LT 0.0417	3.3500	0.3670 a	1.6600 a	0.0533 a	LT 0.0330

a - t/c weight > 25t weight

b - Detected on t/c only

61 - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN UG/M3

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 17

Sample Date	Field Sample Number	Site id	Dibromochloropropane	Dicyclopentadiene	Diethylsulfide	Ethylbenzene	Toluene	Methylisobutyl Ketone	N-Hydrodiethylamine	Trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Meta- & Para-Xylene	
03/18/89	20053	20054	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	2.0600	16.500	LT 0.0174	LT 0.1020	LT 0.0399	2.5900	0.0736	6.4100
03/10/89	20061	20062	RIFS1	LT 0.0380	LT 0.0450	LT 0.0470	1.1400	10.000	LT 0.0170	LT 0.1000	LT 0.0400	1.4300	0.1300	3.9300
03/10/89	20065	20066	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.8430	11.800	LT 0.0174	LT 0.1020	LT 0.0399	1.1200	LT 0.0330	3.5400
03/16/89	20069	20070	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.8990	8.4200	LT 0.0174	LT 0.1020	LT 0.0399	0.8240	0.1020	3.5200
03/16/89	20073	20074	RIFS10	LT 0.0382	LT 0.0451	LT 0.0469	1.0700	8.7600	LT 0.0174	LT 0.1020	LT 0.0399	0.8120	0.0978	4.0600
03/16/89	20077	20078	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.5780	5.7800	LT 0.0174	LT 0.1020	LT 0.0399	0.5050	0.0654	2.2700
03/18/89	20081	20082	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.3900	4.6100	LT 0.0174	LT 0.1020	LT 0.0399	0.3400	LT 0.0330	1.5200
03/18/89	20085	20086	RIFS2	LT 0.0382	LT 0.0451	LT 0.0469	0.2580	2.6900	LT 0.0174	LT 0.1020	LT 0.0399	0.2310	LT 0.0330	1.0600
03/21/89	20089	20090	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.8030	6.0000	LT 0.0174	LT 0.1020	LT 0.0399	0.9490	0.1140	2.8800
03/22/89	20093	20094	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	61 0.3470	61 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	61 0.3470	LT 0.0330	61 0.6940
03/31/89	20109	20110	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.5730	3.9400	LT 0.0174	LT 0.1020	LT 0.0399	0.5380	LT 0.0330	3.0100
03/31/89	20113	20114	RIFS10	LT 0.0382	LT 0.0451	LT 0.0469	0.5920	3.8300	LT 0.0174	LT 0.1020	LT 0.0399	0.4880	LT 0.0330	2.6800
04/6/89	20116	20117	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.2240 ^b	1.4400 ^b	LT 0.0174	LT 0.1020	LT 0.0399	0.1050 ^b	LT 0.0330	1.0700 ^b
04/7/89	20119	20120	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.5320	4.2600	LT 0.0174	LT 0.1020	LT 0.0399	0.3900	LT 0.0330	0.8160
04/11/89	20125	20126	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.0721	0.6930	LT 0.0174	LT 0.1020	LT 0.0399	0.4320	LT 0.0330	0.2190
04/16/89	20128	20129	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.8990	8.6300	LT 0.0174	LT 0.1020	LT 0.0399	1.5500	LT 0.0330	4.3200
04/16/89	20131	20132	RIFS10	LT 0.0382	LT 0.0451	LT 0.0469	1.0400	10.400	LT 0.0174	LT 0.1020	LT 0.0399	1.6700	LT 0.0330	5.5600

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN UG/MS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Sample Date	Field Sample Number	Site id	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichlorobenzene	Benzene	Carbon Tetrachloride	Methylene Chloride	Chloroform	Chlorobenzene
04/19/89	20134	RIFSI	2.6700 a	LT 0.0295	LT 0.0243	LT 0.0208	3.0500	LT 0.0417	2.3100 a	0.3070 a	1.4000 a	LT 0.0330 b
04/21/89	20138	RIFSI	1.0400 a	LT 0.0295	LT 0.0243	0.0368	1.0100	LT 0.0417	0.5120 a	0.2230 a	2.8500 a	LT 0.0330 b
04/25/89	20143	RIFSI	0.8500 a	LT 0.0295	LT 0.0243	0.0271	0.1940	LT 0.0417	0.8180 a	0.5030 a	3.3100 a	0.1300 b
04/25/89	20147	RIFSID	0.9510 a	LT 0.0295	LT 0.0243	0.0354	0.1780	LT 0.0417	0.8920 a	0.4290 a	0.3350 a	0.1160 b
04/26/89	20149	RIFSI	0.4870 a	LT 0.0295	LT 0.0243	0.0257	0.7470	LT 0.0417	2.6700 a	0.2440 a	0.9560 a	0.1660 b
05/5/89	20152	RIFSI	1.0500 a	LT 0.0295	LT 0.0243	0.0529 b	0.5490	LT 0.0417	1.3900 a	0.2940 a	0.4030 b	LT 0.0330 b

a - t/c weight 1.25g weight
b - Detected on t/c only
GT - Value Is Above CRL; No Estimate Available

ALL UNITS ARE IN UG/TS

SUMMARY OF VOLATILE ORGANIC COMPOUNDS INCLUDES ESTIMATED VALUES ABOVE THE CRL

Page 19

Sample Date	Field Sample Number	Site Id	nBromochloropropane	Dicyclopentadiene	Diethylsulfide	Ethylbenzene	Toluene	Methylisobutyl Ketone	N-Nitrosodimethylamine	Trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Meta- & Para-Xylene	
04/19/89	20134	20135	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	1.400	17.800	LT 0.0174	LT 0.1020	LT 0.0399	2.1400	0.2090	0.7020
04/21/89	20137	20138	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.650	1.400	LT 0.0174	LT 0.1020	LT 0.0399	1.0800	LT 0.0330	3.0300
04/25/89	20143	20144	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.1370	1.2700	LT 0.0174	LT 0.1020	LT 0.0399	0.3300	LT 0.0330	6T 0.6940
04/25/89	20146	20147	RIFS1D	LT 0.0382	LT 0.0451	LT 0.0469	0.1250	6T 0.3470	LT 0.0174	LT 0.1020	LT 0.0399	0.3160	LT 0.0330	0.5200
04/26/89	20149	20150	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.5340	4.9800	LT 0.0174	LT 0.1020	LT 0.0399	0.3860	LT 0.0330	2.1400
05/5/89	20152	20153	RIFS1	LT 0.0382	LT 0.0451	LT 0.0469	0.3540	5.8600	LT 0.0174	LT 0.1020	LT 0.0399	0.7330	0.0926	1.4300

a - t/c weight 1.25t weight

b - Detected on t/c only

GT - Value Is Above CRL; No Estimate Available

SUMMARY OF SEMI-VOLATILES FOR RIFS

ALL UNITS ARE IN UG/M³

FIELD		SITE	ATRAZINE	CHLORDANE	CHLOROPHENYL METHYLSULFOXIDE	CHLOROPHENYL METHYLSULFONE	DIELDRIN	ENDRIN
SAMPLE DATE	SAMPLE NUMBER							
10/22/88	05701	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
10/26/88	05702	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
10/29/88	05703	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
11/2/88	05705	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
11/8/88	05706	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
11/10/88	05708	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
11/17/88	05712	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
11/19/88	05713	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
11/22/88	05717	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
11/23/88	05713	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/1/88	05722	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/2/88	05723	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/6/88	05726	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/10/88	05729	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/13/88	05731	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/15/88	05732	RIFS1D	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/16/88	05733	RIFS1C	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/21/88	05739	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/21/88	05740	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
12/22/88	05741	RIFS1	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
12/22/88	05742	RIFS2	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
12/28/88	05745	RIFS1	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
12/28/88	05746	RIFS2	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
12/29/88	05747	RIFS1	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
12/30/88	05749	RIFS1	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210

SUMMARY OF SEMI-VOLATILES FOR RIFS

ALL UNITS ARE IN UG/M3

FIELD		SITE	ISODRIN	MALATHION	DDE	DDT	PARATHION	SUPONA
SAMPLE DATE	SAMPLE NUMBER							
10/22/88	05701	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
10/26/88	05702	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
10/29/88	05703	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
11/2/88	05705	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
11/8/88	05706	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
11/10/88	05708	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
11/17/88	05712	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
11/19/88	05713	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
11/22/88	05717	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
11/23/88	05718	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/1/88	05722	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/2/88	05723	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/6/88	05725	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/10/88	05729	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/13/88	05731	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/15/88	05732	RIFS1D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/16/88	05733	RIFS1C	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/21/88	05739	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/21/88	05740	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
12/22/88	05741	RIFS1	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420
12/22/88	05742	RIFS2	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420
12/28/88	05745	RIFS1	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420
12/28/88	05746	RIFS2	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420
12/29/88	05747	RIFS1	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420
12/30/88	05749	RIFS1	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420

EBASCO SERVICES

ROCKY MOUNTAIN ARSENAL PROGRAM

06/18/90

SUMMARY OF SEMI-VOLATILES FOR RIFS

ALL UNITS ARE IN UG/MC

FIELD		SITE						
SAMPLE DATE	SAMPLE NUMBER		ATRAZINE	CHLORDANE	CHLOROPHENYL METHYLSULFOXIDE	CHLOROPHENYL METHYLSULFONE	DIELDRIN	ENDRIN
12/31/88	05751	RIFS1	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
12/31/88	05753	RIFS2	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
01/4/89	05755	RIFS1	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
01/4/89	05756	RIFS2	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
01/5/89	05757	RIFS1	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
01/5/89	05750	RIFS2	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
01/6/89	05761	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/7/89	05763	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/9/89	19741	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/10/89	19742	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/10/89	19743	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/11/89	05765	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/12/89	05766	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/18/89	05775	RIFS1	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
01/18/89	05776	RIFS10	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
01/18/89	05778	RIFS2	LT 0.0800	LT 0.0300	LT 0.1800	LT 0.1000	LT 0.0350	LT 0.0210
01/19/89	05779	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/19/89	05780	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/26/89	05789	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/26/89	19765	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/27/89	16001	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/27/89	16002	RIFS10	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/27/89	16004	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/31/89	16007	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
01/31/89	16008	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212

SUMMARY OF SEMI-VOLATILES FOR RIFS

ALL UNITS ARE IN $\mu\text{G}/\text{M}^3$

FIELD		SITE							
SAMPLE DATE	SAMPLE NUMBER	ID	ISODRIN	MALATHION	DOE	DDT	PARATHION	SUPONA	
12/31/88	05751	RIFS1	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
12/31/88	05753	RIFS2	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
01/4/89	05755	RIFS1	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
01/4/89	05756	RIFS2	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
01/5/89	05757	RIFS1	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
01/5/89	05760	RIFS2	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
01/6/89	05761	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/7/89	05763	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/9/89	19741	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/10/89	19742	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/10/89	19743	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/11/89	05765	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/12/89	05766	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/18/89	05775	RIFS1	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
01/18/89	05776	RIFS1D	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
01/18/89	05778	RIFS2	LT 0.0450	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0180	LT 0.0420	
01/19/89	05779	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/19/89	05780	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/26/89	05789	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/26/89	19765	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/27/89	16001	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/27/89	16002	RIFS1D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/27/89	16004	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/31/89	16007	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
01/31/89	16008	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	

EBASCO SERVICES

ROCKY MOUNTAIN ARSENAL PROGRAM

06/18/90

SUMMARY OF SEMI-VOLATILES FOR RIFS

ALL UNITS ARE IN $\mu\text{G}/\text{M}^3$

SAMPLE DATE	FIELD SAMPLE NUMBER	SITE ID	ATRAZINE	CHLORDANE	CHLOROPHENYL METHYLSULFOXIDE	CHLOROPHENYL METHYLSULFONE	DIELDRIN	ENDRIN
02/1/89	16009	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/1/89	16010	RIFS1D	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/1/89	16012	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/9/89	16021	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/9/89	16023	RIFS1D	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/9/89	16024	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/10/89	16026	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/10/89	16027	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/14/89	16028	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/14/89	16029	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/15/89	16030	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/15/89	16031	RIFS1D	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/15/89	16032	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/23/89	16039	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/23/89	16041	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/25/89	16044	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/25/89	16045	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/28/89	16046	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
02/28/89	16047	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
03/1/89	16048	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
03/1/89	16049	RIFS1D	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
03/1/89	16050	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
03/8/89	16055	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
03/8/89	16057	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212
03/10/89	16061	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212

SUMMARY OF SEMI-VOLATILES FOR RIFS

ALL UNITS ARE IN UG/M3

FIELD		SITE							
SAMPLE	SAMPLE								
DATE	NUMBER	ID	ISODRIN	MALATHION	DDE	DDT	PARATHION	SUPONA	
02/1/89	16009	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/1/89	16010	RIFS1D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/1/89	16012	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/9/89	16021	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/9/89	16023	RIFS1D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/9/89	16024	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/10/89	16025	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/10/89	16027	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/14/89	16028	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/14/89	16029	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/15/89	16030	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/15/89	16031	RIFS1D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/15/89	16032	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/23/89	16039	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/23/89	16041	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/25/89	16044	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/25/89	16045	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/25/89	16046	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
02/28/89	16047	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
03/1/89	16048	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
03/1/89	16049	RIFS1D	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
03/1/89	16050	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
03/8/89	16055	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
03/8/89	16057	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	
03/10/89	16061	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417	

SUMMARY OF SEMI-VOLATILES FOR RIFS

ALL UNITS ARE IN UG/M2

FIELD		SITE				CHLOROPHENYL	CHLOROPHENYL		
SAMPLE	SAMPLE					METHYLSULFOXIDE	METHYLSULFONE	DIELDRIN	ENDRIN
DATE	NUMBER	ID	ATRAZINE	CHLORDANE					
03/10/89	16062	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/16/89	16065	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/16/89	16066	RIFS10	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/16/89	16067	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/18/89	16070	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/18/89	16071	RIFS2	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/21/89	16072	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/22/89	16073	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/24/89	16076	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/29/89	16079	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/31/89	16087	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
03/31/89	16088	RIFS10	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/6/89	16089	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/7/89	16090	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/14/89	16095	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/14/89	16096	RIFS10	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/19/89	16097	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/21/89	16098	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/25/89	16100	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/25/89	16101	RIFS10	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
04/26/89	16102	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	
05/5/89	16103	RIFS1	LT 0.0799	LT 0.0295	LT 0.1810	LT 0.1010	LT 0.0347	LT 0.0212	

SUMMARY OF SEMI-VOLATILES FOR RIFS

ALL UNITS ARE IN UG/M²

FIELD		SITE						
SAMPLE DATE	SAMPLE NUMBER		ISODRIN	MALATHION	DOE	DOT	PARATHION	SUPONA
03/10/89	16062	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/16/89	16065	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/16/89	16066	RIFS10	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/16/89	16067	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/18/89	16070	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/18/89	16071	RIFS2	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/21/89	16072	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/22/89	16073	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/24/89	16074	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/29/89	16075	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/31/89	16087	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
03/31/89	16088	RIFS10	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/6/89	16089	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/7/89	16090	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/14/89	16095	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/14/89	16096	RIFS10	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/19/89	16097	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/21/89	16098	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/25/89	16100	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/25/89	16101	RIFS10	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
04/26/89	16102	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417
05/5/89	16103	RIFS1	LT 0.0451	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0181	LT 0.0417

SUMMARY OF ORGANIC CHLORINE PESTICIDE CONCENTRATIONS RIFS

ALL UNITS ARE IN UG/M3

FIELD		SITE ID									
SAMPLE DATE	SAMPLE NUMBER		ALDRIN RESULTS	CHLORDANE RESULTS	DIELDRIN RESULTS	ENDRIN RESULTS	ISODRIN RESULTS	PPDDE RESULTS	PPDDT RESULTS		
03/21/89	16072	RIFS1	LT 0.0003	LT 0.0004	0.0005	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
03/22/89	16073	RIFS1	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	0.0007	
03/24/89	16076	RIFS1	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
03/29/89	16078	RIFS1	LT 0.0003	LT 0.0004	0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
03/31/89	16087	RIFS1	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	0.0005	
03/31/89	16088	RIFS1D	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/6/89	16089	RIFS1	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/7/89	16090	RIFS1	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/11/89	16094	RIFS1	LT 0.0003	LT 0.0004	0.0006	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/14/89	16095	RIFS1	LT 0.0003	LT 0.0004	0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/14/89	16096	RIFS1D	LT 0.0003	LT 0.0004	0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/19/89	16097	RIFS1	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/21/89	16098	RIFS1	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/25/89	16100	RIFS1	LT 0.0003	0.0006	0.0009	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/25/89	16101	RIFS1D	LT 0.0003	0.0006	0.0009	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
04/26/89	16102	RIFS1	LT 0.0003	0.0006	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	
05/5/89	16103	RIFS1	LT 0.0003	LT 0.0004	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	LT 0.0003	